

- α Subunit assembly, (371) 307
 A0, (367) 311
 2A, (365) 115
 A:G base pairing, (377) 301
 ABC transporter, (359) 1 (366) 1
 Abortive infection, (374) 169
 Abscise acid, (358) 62; (371) 61; (371) 223
 Absence of promoter methylation, (362) 301
 Absorption anisotropy, (377) 502
 ABTS^{•+}, (365) 164
 Ac-AMP2, (370) 245
 ACAT inhibitor, (363) 29
 2-Acetamido-2-deoxyhexuronic acid, (368) 113
 Acetate kinase, (374) 161
 O-Acetyl ceramide, (361) 201
 O-Acetyl GM3, (361) 201
 Acetyl group, (367) 237
 N-Acetylgalactosamine, (358) 79
 N-Acetyl-L-cysteine, (357) 41
 O-Acetyl sphingene, (361) 201
 Acetylcholine receptor, (361) 65; (363) 195; (374) 393
 Acetylcholinesterase, (357) 265; (368) 461
 Acetyl-CoA carboxylase, (377) 237
 O-Acetylserine(thiol)lyase, (363) 1
 N-Acetylspingosine, (365) 146
 Acid, (370) 105
Acidaminococcus fermentans, (357) 145
 Acidic phospholipid, (364) 157; (376) 172
 Acidification, (359) 53
 Acidosome, (368) 358
 Acinar cell, (360) 303
Acinetobacter, (371) 231
 Aconitine, (365) 79
 Acrosome reaction, (372) 119
 Actin, (357) 251; (359) 220; (363) 273; (365) 149; (375) 87; (376) 125
 Actin binding, (357) 125; (358) 262; (369) 27; (374) 149
 Actin polymerization, (369) 144; (374) 284
 β -Actin promoter, (375) 125
 Actin-based movement, (375) 151
 Actin-binding protein, (360) 227; (364) 283; (368) 500; (369) 38
 α -Actinin, (357) 125; (364) 109
 Actin-like protein, (360) 235
 Actin-myosin interaction, (374) 6
 Actinomycin D, (368) 110
 Activated rhoA, (372) 25
 Activation, (358) 142; (363) 118; (364) 28; (367) 153
 Active enzyme concentration (determination of), (358) 53
 Active oxygen species, (368) 339
 Active site, (368) 445; (375) 235
 Active site analysis, (374) 253
 Active site model, (362) 10
 Active site mutant, (358) 171
 Active site prediction, (367) 275
 Actin A, (376) 247
 Activity, (366) 72; (367) 73
 Actomyosin, (373) 221
 Actomyosin interaction, (365) 149
 Acute pancreatitis, (373) 19
 Acute phase response (pig, rat), (371) 227
 Acute-phase response, (372) 177; (374) 241
 Acute-phase response factor, (360) 137
 Acyl-enzyme adduct (X-ray crystal structure of), (358) 53
 Acyl enzyme intermediate, (370) 179
 Acylation, (367) 198
 Acyl-CoA reductase, (370) 15
 Acyl-CoA-synthetase, (357) 212
 Acyl-enzyme hydrolysis, (375) 18
 N-Acylethanolamine, (375) 117
 Acyl-lipid desaturase, (361) 111
 Acylphosphatase, (364) 243; (367) 145
 Acylphosphatase deletion mutant, (362) 175
 Acylphosphatase ¹H NMR spectrum, (362) 175
 Acylphosphatase mutant, (362) 175
 Acylphosphatase recombinant, (362) 175
 Acyltransferase, (374) 246
 AD, (366) 81
 Adaptive evolution, (362) 247
 Addiction, (361) 70
 ADE3, (376) 229
 Adeno-associated virus, (367) 267
 Adenocarcinoma, (362) 295
 Adenophostin, (368) 248
 Adenosine diphosphate, (374) 48
 Adenosine monophosphate, (377) 421
 Adenosine triphosphate, (375) 79; (377) 421
 Adenovirus, (371) 337
 Adenovirus-human cell system, (362) 301
 Adenylate cyclase, (357) 13; (375) 143
 Adenylyl cyclase, (360) 97; (361) 46; (361) 70; (370) 6; (371) 241; (372) 99
 Adenylyl cyclase A, (368) 381
 Adenylyl cyclase isozyme, (374) 89
 Adhalin, (364) 245
 Adhesion biology, (369) 197
 Adhesion molecule, (374) 323
 Adhesive glycoprotein, (368) 155
 Adipose tissue, (371) 324
 Adipsin, (371) 300
 Adjuvant, (363) 53
 A-DNA, (358) 27
 ADP, (364) 87
 ADP/ATP Carrier, (364) 143
 ADPR-arginine hydrolase, (377) 530
 ADP-ribosyl cyclase, (359) 35; (368) 481; (371) 204
 ADP-ribosylation, (357) 178; (363) 78; (363) 273; (371) 105
 Adrenaline, (370) 175
 α -Adrenoceptor, (363) 256
 β -Adrenoceptor, (358) 133; (364) 120
 Adrenomedullary cell, (372) 39
 Adrenomedullin, (369) 311
 ADRY agent, (357) 55
 Adult rat hepatocyte, (366) 159
 Adult T-cell leukemia, (375) 31
Aedes aegypti, (368) 461
 AEP2 gene, (368) 505
 Affinity chromatography, (361) 255; (374) 125
 Affinity labeling, (368) 169
 Affinity purification, (368) 495; (370) 236; (374) 419
 AFG3 (YTA10), (373) 66
 ω -Agatoxin IVA, (362) 15
 Aged cholesterol, (357) 135
 Ageing, (371) 81
 AGE-product, (371) 81
 Aggregation, (365) 133; (371) 25; (375) 174
 Aggregative gene expression, (368) 381
 Aging, (358) 126; (361) 22; (362) 337; (374) 85; (375) 69
 α -Agonist, (368) 165
 Agonist-binding affinity, (373) 177
Agromyces, (371) 163
 Agrostin, (373) 115
 AIDS, (360) 85
 Air-water monolayer, (375) 254
 Airways, (369) 202
 AKIN10, (377) 189
 Albumin, (376) 1
 Albumin binding, (374) 257
 Albuside B, (369) 221
Alcaligenes faecalis, (368) 432
 Alcohol dehydrogenase, (367) 237; (367) 306; (368) 445; (370) 23; (373) 212
 Alcohol oxidase, (368) 293
 Aldehyde, (370) 15
 Aldo-keto reductase, (370) 32
 Aldose 1-epimerase, (367) 177
 Alfalfa mosaic virus, (371) 219
 Alkalinization, (361) 153
 Alkane oxidation, (362) 5
 p-Alkoxyphenol, (374) 95
 Alkylating derivative, (369) 287
 Alkylsulfonate, (361) 303
 Allergen, (364) 36; (377) 62
 Allergy, (370) 11
Allium sativum, (371) 159
 Allosteric regulation, (374) 100
 ALP, (372) 259
 Alpha-crystallin, (365) 133

- Alpha-helix, (374) 216
 Alternative oxidase, (368) 339
 Alternative polyadenylation, (361) 220
 Alternative splicing, (359) 142; (371) 140; (373) 93; (375) 50; (375) 56
 Aluminium (biology), (364) 182
 Aluminium fluoride, (371) 261
 Aluminofluoride, (362) 286
 Aluminum phthalocyanine tetrasulphonate, (360) 47
 Alzheimer, (368) 10
 Alzheimer's disease, (357) 197; (358) 4; (358) 267; (360) 5; (360) 132; (364) 182; (364) 203; (365) 42; (366) 81; (371) 25; (371) 110; (372) 65; (375) 243; (377) 267
 Alzheimer's disease (familial), (368) 363
 α -Amanitin, (368) 110
 Amantadine, (357) 269
 Amicyanin, (365) 92
 Amidase, (367) 275
 Amine oxidase, (357) 115; (371) 276
 Amine transport, (368) 411
 Amino acid, (370) 123
 D-Amino acid, (365) 227
 Amino acid homology, (370) 75
 Amino acid mutation, (367) 73
 D-Amino acid oxidase, (363) 307
 Amino acid sequence, (357) 129; (360) 101; (362) 319; (363) 175; (365) 152; (367) 214; (368) 257; (368) 331; (371) 1; (371) 264; (373) 212; (373) 217; (377) 163
 Amino acid substitution, (367) 306; (368) 445
 Amino acid transport, (368) 389; (370) 264
 Amino acids, (370) 93
 Aminoacyl-tRNA, (358) 71
 Aminoacyl-tRNA synthetase, (363) 33; (374) 110; (374) 122; (377) 77
 Aminopeptidase, (364) 13; (376) 120
 Aminopeptidase N, (374) 341
 Ammonium assimilation, (367) 45
 AMPA, (363) 184; (373) 93
 AMP-activated protein kinase, (361) 191; (377) 189; (377) 421
 AMPA-selective glutamate receptor channel, (374) 412
 Amperometry, (363) 221
 Amphibian, (358) 205
Amphidinium carterae, (363) 175
 Amphipathic helix, (374) 117
 A-myb gene, (358) 89
 α -Amylase inhibitor family, (364) 36
 α -Amylase/subtilisin inhibitor, (363) 299
 α -Amylase, (361) 220; (377) 6
 Amylin, (365) 98; (368) 36
 Amylogenin, (376) 61
 Amyloid, (377) 267
 Amyloid beta protein, (365) 125
 Amyloid β -protein, (364) 203
 β A4 Amyloid, (368) 363
 β -Amyloid, (371) 25
 Amyloidogenic conformation, (371) 110
 Amyloidosis, (371) 110
 Amyloid precursor protein, (364) 203
 Anaerobic cyclization, (371) 21
 Anaesthetic, (368) 101
 Analgesia, (369) 192
 Analytical ultracentrifugation, (375) 137
 Anandamide, (359) 133; (375) 117; (375) 143; (377) 82
 Anaphylatoxin C5a, (372) 108
 ANCA, (374) 29
 Ancestor enzyme, (367) 56
 Ancient enzyme, (375) 280
 Anesthetic, (374) 412
 Angiogenesis, (370) 203; (372) 83
 Angiography, (357) 247
 Angiotensin I, (373) 199
 Angiotensin II, (368) 343
 Angiotensin receptor, (369) 263
 Angiotensin receptor antagonist, (373) 199
 Anion channel, (361) 303; (377) 15
 Anionic phospholipid, (370) 189
 Anisomolarity, (377) 47
 Ankylosing spondylitis, (369) 243
 Ankyrin, (371) 321
 Ankyrin_B (440 kDa), (357) 217
 Annexin I, (377) 444
 Annexin V, (359) 155
 Annexin VI, (360) 80
Anopheles gambiae, (362) 111
 Anoxia, (375) 87
 ANR, (371) 73
 Antagonism, (377) 363
 Anterior pituitary, (367) 127
 Anterograde transport, (369) 89
 Antibacterial, (372) 185
 Antibacterial glycoprotein, (377) 373
 Antibacterial peptide, (370) 46
 Antibacterial protein, (368) 485
 Antibiotic, (373) 303
 Antibiotic peptide, (368) 197
 Antibody, (357) 297; (368) 267; (377) 92
 Antibody engineering, (377) 135; (377) 227
 Anti-C3d reactive binding site, (372) 291
 Antichymotrypsin, (359) 262
 α_1 -Antichymotrypsin, (368) 471
 Anticoagulant, (365) 159; (370) 1; (375) 103
 Anticodon, (361) 25
 Anti-CR2 MoAb, (372) 291
 Antidiuresis, (365) 209
 Antifreeze protein, (377) 185
 Antifungal, (368) 257
 Antigen, (374) 122
 Antigen A2, (361) 238
 Antigen conformation, (368) 267
 Antigen presentation, (373) 127; (376) 155
 Antigenic determinant, (367) 85
 Antigen-presenting cell, (363) 85
 Anti-lysozyme mAb, (371) 17
 Antimicrobial, (362) 65; (368) 257
 Antimicrobial peptide, (368) 331; (368) 526; (374) 1; (376) 130; (376) 225; (377) 519
 Antimitotic drug, (377) 59
 Antimycotics, (377) 213
 Antioxidant, (357) 83; (361) 22; (364) 259; (365) 66; (370) 37; (372) 233; (375) 45
 Antioxidant activity, (365) 164; (368) 188
 Anti-peptide antibody, (358) 129; (367) 85
 Antipporter, (362) 47; (365) 193; (374) 72
 Antiproliferative, (358) 273
 Antipsychotic drug, (361) 215
 Antisense, (369) 192
 Antisense mRNA, (371) 329
 Antisense oligodeoxynucleotide, (364) 198
 Antisense oligonucleotide, (361) 41
 α_1 -Antitrypsin, (370) 179; (377) 150
 Antitumor, (359) 31
 Antitumor agent, (360) 231
 AOT, (360) 202
 AP-1, (368) 59
 Apical transport, (377) 465
Aplysia californica, (368) 481
Aplysia limacina myoglobin, (357) 227
 Apo-1, (371) 321; (373) 265
 APO-1/Fas, (368) 491
 ApoB, (370) 255
 Apo-glycogenin, (359) 110
 Apolipoprotein A-I, (376) 99
 Apolipoprotein AI (Human), (361) 29
 Apolipoprotein D, (366) 53
 Apolipoprotein E, (371) 110
 Apo-protein, (368) 432
 Apoptosis, (358) 211; (358) 255; (361) 229; (363) 101; (363) 304; (364) 5; (364) 134; (364) 139; (364) 234; (364) 264; (367) 188; (368) 348; (371) 321; (372) 233; (373) 19; (373) 265; (373) 291; (374) 216; (374) 303; (374) 384; (375) 21; (375) 169; (375) 283; (376) 15; (376) 247; (377) 9
 APP, (368) 363
 AQP1, (373) 269
 AQP-CD, (365) 209
 Aqueous phase system, (361) 135
Arabidopsis, (369) 331
Arabidopsis thaliana, (358) 43; (358) 67; (358) 199; (362) 215; (363) 1; (364) 103; (372) 13; (374) 351; (376) 81

- Arachidonic acid, (366) 53; (367) 198; (367) 228; (375) 79; (375) 117; (377) 306; (377) 358
 Arachidonoyl-ethanolamide, (377) 82
 Archaea, (359) 239
 Archaeobacterium, (359) 173; (360) 187; (372) 135; (376) 67
 ARF, (362) 286
 Arg-Gly-Asp introduction, (374) 262
 Arginase, (359) 251; (366) 127
 Arginine, (359) 251; (366) 127
 Arginine vasopressin, (373) 35
 Argininosuccinate synthetase, (372) 69
 Armadillo submandibular glycoprotein, (360) 211
 Aromatase, (372) 222
 ARP3, (360) 235
 Arrestin, (362) 185; (362) 247
 Arrhenius plot, (361) 273
 Arsenite, (364) 223
 Artificial myosin isozyme, (369) 255
 Artificial protease, (362) 39
 Arylalkylamine *N*-acetyltransferase (aaNAT), (375) 148
 Ascorbic acid, (373) 19
 Ascorbate peroxidase, (358) 149; (367) 28
 Asparagine, (358) 171; (363) 179; (374) 122
 Aspartate aminotransferase, (366) 170; (377) 481
 Aspartic proteinase, (366) 72
Aspergillus nidulans, (368) 547; (377) 118
 Aspirin, (371) 315
 Asp-Pro bond, (371) 171
 Assembly (in vivo), (369) 158
 Association, (375) 137
 Association constant, (369) 287
 Association kinetics, (357) 312
 Astaxanthin, (362) 34; (364) 125
Asterina pectinifera, (369) 221
 Astrocyte, (357) 86; (362) 75; (364) 301; (377) 489
 Astroglia, (360) 266
 Atherosclerosis, (358) 175; (358) 311; (360) 271; (360) 291; (361) 291; (363) 161; (363) 277; (366) 75; (368) 239; (368) 513; (372) 1; (374) 12; (375) 45; (377) 309
 Atomic force microscopy (AFM), (371) 279
 ATP, (364) 161; (369) 217; (375) 129; (377) 444
 ATP binding domain, (359) 1
 ATP hydrolysis, (369) 144; (369) 283
 ATP synthase, (358) 142; (371) 115; (373) 141
 ATP synthesis, (371) 119
 ATP/ADP translocator, (374) 351
 ATPase, (362) 171; (369) 255
 ATPase activity, (363) 189
 ATPase assembly, (373) 66
 ATPase catalytic cycle, (377) 285
 ATPase gene, (371) 127
 ATPase subunit 9, (373) 56
 ATPase-Mg²⁺, (364) 59
 ATP-dependent protease, (377) 41; (377) 249
 ATP-sensitive K⁺ channel, (375) 215
 ATP-sensitive K-channel, (367) 61; (367) 193; (377) 338
 Atrial natriuretic factor (ANF), (359) 199
 Atrial natriuretic peptide, (360) 169
 Atropine, (377) 275
 AtT-20 endocrine cell line, (368) 271
 Attenuation, (371) 9
 Atypical angiotensin receptor, (373) 199
 Autoantibody, (365) 219
 Autocrine loop, (359) 97
 Autodegradation, (377) 41
 Autoglucosylation, (376) 61
 Autoinhibitory domain, (357) 221
 Automated assignment, (365) 172
 Automation, (376) 91
 Autophosphorylation site, (369) 62
 Autoproteolysis, (357) 168
 Avidin, (362) 306
 Axial H₂O-ligation, (370) 97
 Axial ligand, (377) 512
 Axon guidance, (370) 269
 Axonal mRNAs, (373) 35
 Azide, (377) 502
 Azidovinyldeoxyuridine, (373) 41
 Azole, (374) 174
 Azole antifungal, (368) 326
Azotobacter vinelandii, (357) 79
 B cell proliferation, (361) 233
 B16-F1, B16-G4F mouse melanoma cell, (359) 199
 7B2, (362) 151; (364) 91; (371) 154
 Baby hamster kidney cells (BHK-21), (365) 203
Bacillus licheniformis, (374) 221
Bacillus subtilis, (360) 307
Bacillus thuringiensis, (360) 217
Bacillus thuringiensis var. *israelensis*, (362) 111
 Backbone torsion angle, (362) 156
 Bacterial chemotaxis, (374) 161
 Bacterial expression, (357) 309; (368) 39
 Bacterial photosynthesis, (357) 70; (368) 370
 Bacterial polysaccharide, (368) 113
 Bacterial reaction centre, (370) 88
 Bacterial respiration, (375) 197
 Bacterial toxin, (371) 303
 Bacteriochlorophyll *a*, (371) 21
 Bacterioferritin, (361) 238
 Bacteriolytic enzymatic complex, (368) 113
 Bacteriophage T5, (366) 46
 Bacteriorhodopsin, (359) 65; (367) 297; (373) 81; (377) 263; (377) 330; (377) 419; (377) 502
 Bacterium, (362) 1
 Baculovirus, (368) 353; (368) 495; (376) 181
 Baculovirus expression, (363) 246; (368) 461; (374) 419
 Baculovirus/Sf9 system, (358) 297
 Bait region, (367) 137
 Baker's asthma, (364) 36
ba₃-oxidase, (368) 132
 BAPTA/AM, (359) 151
 Bark lectin, (377) 54
 Barley, (361) 220; (361) 250; (363) 299
 Barley RIP, (373) 115
 Barnase, (357) 16
 Baroenzymology, (364) 98
 Basal membrane, (375) 227
 Base tripling, (367) 81
 Basement membrane, (365) 129; (365) 183
 Basic/leucine zipper, (375) 155
 Basidiomycete, (371) 132; (376) 202
 BAX, (376) 247
bc₁ complex, (371) 267
 B-Cell activation, (369) 177
BCGF 1, (361) 233
 BCL-2, (372) 233; (376) 247
 BCR signaling, (374) 407
 γ B-crystallin, (376) 195
 Bean sprout, (359) 50
 Benzamide, (363) 81
 Benzo(a)pyrenedi-oxide, (368) 64
 Beryllium fluoride, (371) 261
Beta vulgaris, (365) 1
 Beta-amyloid, (364) 182
 Betaglycan, (377) 368
 Betaine, (373) 229
 Betaine transport, (377) 47
 BGT-1, (377) 47
 BHK cell, (365) 57
 bHLH transcription factor, (370) 149
 Bi-allelic expression, (374) 57
 Bicarbonate, (363) 251
 Bifunctional α -amylase/serine protease inhibitor, (361) 250
 Big endothelin-1, (373) 97
 Bilayer, (371) 279
 Bile acid, (374) 184
 Bimetallic cytochrome *a₃*-Cu_B, (374) 371
 Binase, (357) 16
 Binase-barstar complex, (366) 156
 Binding, (362) 111
 Binding activity, (376) 11
 Binding capacity, (376) 151
 Binding cleft, (359) 107
 Binding mode, (370) 1; (375) 103
 Binding protein, (358) 240

- Binding site, (365) 155; (374) 125; (375) 91
 Binuclear iron protein, (362) 10
 Bioactive peptide, (375) 15
 Biocarbonate, (361) 123
 Biochemical assay, (365) 120
 Bioenergetics, (368) 148
 Biomembrane, (371) 223
 Biopanning, (361) 85
 Biopterin, (357) 62
 Biosensor, (362) 93
 Biosynthesis, (358) 97; (362) 151; (364) 125; (371) 21; (373) 303
 Biotin, (368) 5
 Biotinylation, (377) 167
 Biotransformation, (359) 244
 BIR1, (367) 61; (367) 193; (374) 135
 1,10-Bis-guanidino-*n*-decane, (375) 215
 Bisindolylmaleimide (GF109203X), (365) 137
 Bis-mannose photolabel, (368) 19
 Bisubstrate inhibitor, (363) 22
 Bisulphite PCR, (370) 170
 Bitter peptide, (364) 115
 Bitterness, (364) 115
 BKIN12, (377) 189
 Bladder carcinoma, (374) 57
 Bleomycin, (362) 80; (372) 144
 Bleomycin-binding protein, (362) 80
 Blood plasma, (376) 1
 Blood platelet, (363) 49
 Blood vessel, (369) 311
 Blood-brain barrier, (374) 179
 Blue copper, (365) 92
 Blue copper oxidase, (376) 202
 Blue copper protein, (368) 432
 BNP, (370) 6
 Boar spermadhesin, (365) 179
 Boar SPMI, (368) 420
 Bone, (364) 171
 Bone alkaline phosphatase, (375) 280
 Bone resorption, (370) 78
 Borna disease virus, (364) 293
Botryococcus braunii, (370) 15
Botulinum C3 exoenzyme, (366) 11; (371) 105
Botulinum toxin, (376) 41
 Bovine brain, (372) 59
 Bovine β -trypsin, (358) 53
 Bovine heart submitochondrial particle, (370) 83
 Bovine retina rod cell, (376) 87
 Bovine tendon, (368) 307
 Bowman-Birk soybean inhibitor, (362) 225
 BPTI, (363) 81
 Bradykinin, (357) 207
 B-Raf, (357) 290
 Brain, (368) 485; (373) 250
 Brain (mouse), (368) 455
 Brain (rat), (357) 86
 Brain cell, (358) 48
 Brain localization, (357) 27
 Brain mitochondrial MAO type A, (368) 367
 Brain-nerve cord, (376) 185
Brassica napus L., (374) 225
 Breast, (374) 270
 Breast cancer, (360) 165; (363) 226; (373) 245
 Brefeldin A, (357) 109
 Brown adipose cell (rat), (374) 187
 Brown adipose tissue, (363) 41
Brucella melitensis, (361) 238
 Brucellosis, (361) 238
Brugia malayi, (374) 122
 Buckwheat, (371) 264
 α -Bungarotoxin, (365) 79
 L-Buthionine sulfoximine, (368) 73
 Butyrate, (359) 147
 B \rightarrow Z transition, (368) 27
 ^{13}C dimethyl-Lys NMR, (361) 29
 ^{13}C NMR, (364) 152; (367) 77
 C1, (358) 323
 C1-inhibitor, (368) 401
 C1q component of complement, (361) 173
p-C1-phenylalanine, (358) 293; (364) 272
 C1s, (368) 401
 C1-tetrahydrofolate, (376) 229
 C2 domain, (361) 196
 C2 toxin, (363) 273
 C23/nucleolin, (366) 146
 C2C12, (376) 108
 C2-domain, (358) 153
 C3 component of complement, (376) 6
 C5a-receptor, (377) 426
 C6 glioma cell, (371) 333; (372) 33
 Ca^{2+} , (365) 75; (371) 99; (374) 237
 Ca^{2+} binding protein, (368) 509
 Ca^{2+} dyes, (364) 335
 Ca^{2+} influx, (370) 127
 Ca^{2+} measurement, (364) 198
 Ca^{2+} on cAMP, (374) 89
 Ca^{2+} oscillation, (368) 165
 Ca^{2+} release, (370) 127
 Ca^{2+} release channel, (359) 223
 Ca^{2+} sensor, (361) 196
 Ca^{2+} signaling, (373) 193
 Ca^{2+} store, (360) 173; (377) 31
 Ca^{2+} transient, (364) 335
 $\text{Ca}^{2+}/\text{H}^{+}$ pump, (371) 249
 Ca^{2+} -activated K^{+} channel, (359) 41; (359) 85; (366) 49
 Ca^{2+} -ATPase, (371) 57; (376) 167; (377) 31
 Ca^{2+} -binding, (368) 397
 Ca^{2+} -binding protein, (371) 303; (375) 137
 Ca^{2+} -induced Ca^{2+} release, (369) 295
 Cadherin, (363) 289
 Cadmium-113 NMR, (362) 55
Caenorhabditis elegans, (357) 265
 Caffeine, (359) 223; (373) 250
 Caged compound, (364) 198
 Catbindin, (374) 333
 Calcein, (368) 385
 Calcineurin, (357) 221; (362) 55; (374) 237; (375) 108; (376) 58
 Calcium, (358) 101; (359) 101; (359) 119; (360) 266; (360) 303; (362) 316; (363) 217; (364) 328; (366) 104; (368) 101; (373) 23; (373) 182; (374) 77; (374) 169; (374) 403; (377) 444
 Calcium binding, (362) 55
 Calcium binding site, (360) 227
 Calcium channel, (359) 155; (360) 144; (361) 101; (362) 15; (364) 129; (365) 1; (366) 21; (368) 405; (371) 43; (373) 103; (377) 159
 Calcium channel activator, (367) 173
 Calcium channel blocker, (370) 163; (373) 103
 Calcium channel β -subunit, (370) 135
 Calcium influx channel, (373) 193
 Calcium release, (369) 43; (369) 263
 Calcium transport, (374) 333
 Calcium-activated proteolysis, (367) 223
 Calcium-binding protein, (362) 342; (363) 90; (371) 271; (374) 333; (374) 403; (376) 87
 Calcium-calmodulin, (357) 125
 Calcium-dependent, (362) 93
 Calcium-dependent membrane association, (357) 230
 Calcofluor white, (358) 165
 Caldesmon, (360) 89; (363) 269
 Calmidazolium, (369) 315
 Calmitine, (374) 309
 Calmodulin, (360) 89; (363) 269; (366) 104; (371) 123; (373) 217; (374) 237
 Calmodulin phosphorylation, (363) 111
 Calmodulin-dependent protein kinase I, (361) 191
 Calmodulin-like, (362) 93
 Calorimetry, (359) 123
 Calpain, (358) 101; (359) 60; (362) 93; (367) 223; (368) 10; (368) 397
 Calpastatin, (362) 93
 Calphostin C, (373) 135
 Calponin, (363) 269; (365) 167; (371) 123
 Calponin-homology, (374) 149
 Calreticulin, (376) 53
 CaM kinase, (373) 71
 CaM kinase II, (358) 23
 cAMP, (357) 290; (362) 75; (362) 131; (369) 311; (373) 23; (373) 182; (377) 444

- cAMP analog, (362) 291
 cAMP element binding protein, (377) 413
 cAMP inhibition, (374) 273
 cAMP relay, (368) 381
 cAMP-/cGMP-dependent protein kinase, (370) 184
 cAMP-dependent protein kinase, (368) 381; (369) 57; (374) 356; (375) 231; (377) 470
 Cancer, (374) 270
Candida albicans, (373) 275
Candida cylindracea, (360) 202
Candida rugosa, (360) 202
Candida utilis, (368) 105
 Candidacidal activity, (368) 526
 Cannabinoid, (359) 133; (369) 177; (377) 82
 Cannabinoid receptor, (375) 143
 Canthaxanthin, (364) 125
 Cap structure, (360) 281
 CAP-18, (368) 173
 cap32/34, (374) 284
 Capillary electrophoresis, (369) 283
Capsicum annuum, (358) 149; (372) 199
 Capsule, (371) 65
 Captopril, (361) 22
 Carbamylcholine, (363) 13
 Carbohydrate recognition, (360) 34; (360) 34
 Carbohydrate recognition domain, (376) 6
 Carbohydrate-deficient glycoprotein syndrome, (377) 318
 Carbohydrate-protein interaction, (358) 57
 Carbon catabolite repression, (376) 103
 Carbonic anhydrase, (358) 39
 Carbonic anhydrase II, (368) 45
 Carbonyl group, (374) 85
 Carboxy PTIO, (368) 425
 Carboxyatractylate, (371) 258
 Carboxyl methylation, (360) 57
 Carboxypeptidase, (357) 65; (371) 1
 Carcinoembryonic antigen family, (365) 51
 Cardiac, (368) 405
 Cardiac Ca^{2+} , (376) 24
 Cardiac muscle, (377) 109; (377) 131; (377) 338
 Cardiac steroid, (368) 169
 Cardiac troponin-I, (370) 175
 Cardiac-like α myosin heavy chain, (367) 132
 Cardioacceleratory peptide, (371) 311
 Cardiolipin, (368) 15; (373) 239
 Cardiomyocyte, (377) 275
 Cardiomyopathic hamster, (364) 245
 Cardiomyopathy, (364) 245
 Cardiotoxin, (375) 162
 Cardiotrophin 1, (372) 177
 Carnitine acyltransferases, (371) 137
 Carnitine palmitoyltransferase, (363) 41
 Carnosine, (371) 81
 β -Carotene, (363) 137
 ζ -Carotene, (372) 199
 β , β - and β , ϵ -Carotenoid, (367) 158
 Carotenoid, (364) 125; (371) 61; (372) 199
 Carotenoid binding, (365) 23
 Carotenoid electrochromic response, (367) 167
 Carotenoprotein complex, (362) 34
 Carrier protein, (360) 177; (374) 403
 Carcinogenesis, (358) 273
 Cartilage, (363) 214; (364) 171
 Cartilage oligomeric matrix protein (COMP), (368) 307
 Casein, (372) 185
 Casein kinase-2, (363) 111; (368) 211
 CAT activity, (358) 109
 Catabolite repression, (364) 13; (376) 120; (377) 197
 Catalase, (367) 241; (370) 97; (371) 297
 Catalytic binding site, (374) 192
 Catalysis, (370) 75
 Catalytic antibody, (375) 273
 Catalytic site, (369) 57
 Catalytic triad, (368) 397
 Catecholamine, (360) 67; (362) 131
 Catecholamine secretion, (359) 137; (372) 39
 Catenins, (374) 415
Catharanthus roseus, (374) 345
 Cathelicidin, (374) 1; (376) 225
 Cathelin, (362) 65; (368) 173; (376) 130; (377) 519
 Cathepsin, (360) 101
 Cathepsin B, L, D, (363) 85
 Cathepsin D, (368) 10
 Cathepsin G, (367) 251
 Cathepsin L, (359) 78; (361) 185
 Cation channel, (364) 189
 Cation- π interaction, (370) 1
Catostomus commersoni, (370) 227
 Caveolae, (375) 11; (376) 108
 C_2 -ceramide, (374) 299; (374) 299
 CCT, (358) 129
 CD spectroscopy, (365) 13
 CD11b, (369) 301
 CD26, (358) 48
 CD38, (359) 35; (368) 481
 CD38 antigen, (371) 204
 CD4, (363) 101
 CD40, (358) 113
 CD45, (372) 54
 CD45 phosphatase, (370) 118
 CD67, (369) 301
 Cdc2, (358) 34
 cdc2 kinase subunit, cks protein, (363) 145
 cdc25B, (372) 54
 cdc2a gene, (362) 215
 Cdc37, (375) 155
 cdk5, (376) 238
 cDNA, (358) 67; (362) 342; (363) 6; (367) 145; (368) 173; (368) 331; (368) 485; (371) 176; (374) 351; (376) 233; (377) 62
 cDNA cloning, (357) 207; (361) 13; (363) 41; (363) 151; (364) 283; (365) 183; (366) 37; (367) 28; (369) 326; (370) 11; (373) 203; (376) 185; (377) 373; (377) 403
 cDNA expression, (373) 177
 cDNA Sequence, (358) 149; (360) 235; (368) 445; (373) 61; (377) 123; (377) 249; (377) 349
 cDNA subtraction, (371) 287
 CDP-glucose, (359) 110
 Cell adhesion, (365) 51; (371) 271
 Cell adhesion activity, (374) 262
 Cell adhesion molecule, (365) 51
 Cell adhesion receptor, (363) 123
 Cell aggregation, (363) 289
 Cell attachment, (363) 214; (365) 227
 Cell capacitance, (363) 221
 Cell culture, (369) 202
 Cell cycle, (360) 173; (363) 132; (370) 27; (372) 54; (373) 164; (375) 75; (375) 155; (377) 26
 Cell cycle arrest, (358) 165
 Cell cycle control, (366) 92
 Cell cycle regulation, (362) 295; (363) 145
 Cell death, (363) 304; (365) 66; (371) 345
 Cell division, (366) 43
 Cell growth, (359) 119
 Cell growth regulation, (360) 34; (360) 34
 Cell membrane, (369) 13
 Cell model, (360) 132
 Cell motility, (359) 229; (369) 38
 Cell permeabilization, (371) 145
 Cell proliferation, (359) 15; (364) 309
 Cell recognition, (357) 98
 Cell redox, (364) 298
 Cell signaling, (376) 74
 Cell space organization, (369) 13
 Cell specificity, (365) 101
 Cell surface receptor, (363) 49
 Cell volume, (370) 255; (373) 229; (377) 47
 Cell wall, (358) 165; (371) 163
 β -Cell, (358) 23; (371) 99
 Cell-cell interaction, (374) 17
 Cell-cycle regulated expression, (358) 67
 Cell-free system, (364) 139
 Cell-free translation, (359) 89
 Cell-free translocation system, (362) 29
 Cell-matrix adhesion, (376) 159
 Cell-mediated immunity, (363) 53
 Cellobiose dehydrogenase, (369) 233

- Cellubrevin, (377) 489
 Cellular proliferation, (371) 337
 Cellular redox, (358) 62
 Cellular regulation, (373) 30
 Cellulase, (360) 121; (372) 96; (376) 49
 Cellulose-binding domain, (372) 96
 Cellulosome (*Clostridium thermocellum*), (360) 121
 Cell-uptake, (371) 283
 Central diabetes insipidus, (362) 19
 Central nervous system, (370) 250
 Centrifugal elutriation, (373) 164
 Cephalopod rhodopsin, (359) 45
Cephalosporium acremonium, (358) 97; (373) 303
 Ceramide, (358) 211; (367) 283; (368) 477; (369) 18; (375) 249
c-erbB-2, (373) 245
 Cerebrospinal fluid, (359) 164; (376) 37
 Ceruloplasmin, (376) 202
 CF_3CF_3 , (377) 163
c-Fgr, (367) 149
c-fos, (357) 45; (361) 140; (369) 169; (376) 141
 CFTR, (374) 312
cGMP, (364) 189; (373) 250; (374) 34
cGMP-dependent protein kinase, (374) 356; (374) 419; (375) 263
cGMP-inhibited cyclic nucleotide phosphodiesterase, (374) 187
 CH_4 activation, (362) 5
 Chain fold, (368) 289
 Channel, (361) 123; (374) 169
 Channel activity, (377) 444
 Channel inactivation, (377) 383
 Chaperone, (359) 123; (362) 151; (364) 272; (365) 133; (369) 305; (371) 154; (372) 283; (374) 211; (375) 211
 Chaperonin, (359) 195; (361) 55; (362) 121; (366) 17; (369) 283
 Chaperonin 10, (361) 211
 Chaperonin, split of, (362) 121
 CHAPS, (375) 108
Chara, (375) 151
Characeae, (361) 65
 Charibdotoxin, (359) 41
 CheA protein, (374) 161
 Chemical carcinogenesis, (366) 143
 Chemical cross-linking, (373) 234
 Chemical deacylation, (371) 241
 Chemical modification, (360) 207
 Chemical transduction, (367) 233
 Chemically induced dynamic nuclear polarization (CIDNP), (371) 13
 Chemiluminescence, (377) 309
 Chemokine, (360) 155
 Chemokinesis, (367) 180
 Chemotaxis, (358) 31; (376) 19
 CheY protein, (374) 161
 Chick embryo chondrocyte, (373) 207
 Chick muscle, (368) 139
 Chicken cystatin variant, (361) 179; (361) 185
 Chilling stress, (362) 235
 Chimera, (360) 144
 Chimeric enzyme, (364) 325
 Chimeric receptor, (357) 93; (364) 23; (375) 1
 CHIP28, (373) 269
 CHL cell, (373) 23
Chlamydomonas, (370) 222; (377) 163
 Chloramphenicol acetyltransferase, (375) 211
Chlorella protothecoides, (364) 41
 Chloride, (361) 123
 Chloride channel, (368) 5; (375) 56
 1-Chloro-2,4-dinitrobenzene, (368) 73
 Chlorophyll, (370) 241
 Chlorophyll *c*, (363) 175
 Chlorophyll catabolism, (364) 41
 Chlorophyll fluorescence, (371) 61
 Chloroplast, (358) 39; (361) 35; (364) 305; (367) 19; (368) 263; (373) 262; (377) 349
 Chloroplast development, (367) 158
 Chloroquine diphosphate, (361) 149
 CHO cell, (369) 263; (373) 103; (377) 275; (377) 290
 Cholera toxin, (368) 563
 Cholesterol, (361) 46; (372) 29
 Cholesterol efflux, (363) 29
 Cholesterol hydroperoxide, (357) 135
 Cholesterol synthesis, (358) 230
 Cholesteryl ester cycle, (363) 29
 Cholesteryl sulfate, (362) 197
 Choline, (357) 279; (358) 243
 Cholinephosphotransferase, (377) 271
 Cholinesterase, (370) 212
 7-Chloro-4-nitrobenzofrazan, (368) 207
 Chondrocyte, (363) 214
 Chromaffin cell, (362) 15; (374) 77; (377) 31
 Chromaffin granule, (359) 69
 Chromatin, (364) 33; (366) 26; (369) 118; (377) 51
 Chromatin high-order folding, (361) 149
 Chromogranin, (360) 294; (361) 8
 Chromogranin B, (369) 267
 Chromophore, (362) 50; (374) 157
 Chromosomal assignment, (361) 269
 Chromosomal localization, (373) 229; (377) 15
 Chromosomal mapping, (358) 233; (377) 429
 Chromosome 14, (363) 304
 Chromosome 16, (361) 233
 Chronic low-frequency stimulation, (367) 132
 Chymotrypsinogen C, (367) 211
 CICR, (367) 23; (373) 182
CIF1 (GGS1/TPS1), (377) 457
 Cigarette smoke, (375) 179
 Cilia, (364) 147
 Cimetidine, (360) 10
 Cinnabarinic acid, (376) 202
 Cinnamate 4-hydroxylase, (374) 345
 Circular dichroism, (358) 133; (358) 247; (360) 202; (361) 176; (362) 266; (364) 165; (364) 185; (366) 99; (368) 526; (369) 197; (370) 153; (374) 257; (375) 304; (377) 92
 Citrate, (361) 225
 Citrus, (358) 182; (366) 151
 CK2 β -subunit, (363) 111
c-kit, (374) 69
 Cl^- channel, (367) 319
 Cl^- conductance, (374) 312
 Clean total correlation spectroscopy, (377) 301
 Cleavage activity, (368) 304
 Cleaved actin, (375) 151
 Clone, (375) 56
 Cloning, (359) 142; (363) 256; (364) 125; (370) 269; (374) 25; (375) 121; (376) 103
Clostridium botulinum, (376) 41
Clostridium cochlearium, (369) 252
 Clotrimazole, (360) 10
 ClpA, (377) 41
 ClpP, (377) 41; (377) 249
 Cluster, (367) 53
c-Met, (372) 78
c-myc, (371) 337
 CNP, (370) 6
 CNS, (375) 129
 CNTF, (362) 75
 CO_2 assimilation, (359) 50
 CoA, (357) 212
 Coactosin, (374) 284
 Coagulation, (371) 271; (374) 141; (375) 103
 Coat protein, (369) 93
 Coat protein gene, (359) 89
 Cobalt, (370) 203
 Co-culture, (372) 108
 Codon distribution, (376) 195
 Codon usage, (362) 1
 Coenzyme B_{12} , (369) 252
 Coexpression, (362) 143
 Cofactor biogenesis, (371) 276
 Cohesin domain, (360) 121
 Coiled-coil, (369) 27; (377) 243
 Cold, (373) 131
 Cold denaturation, (358) 247
 Cold inactivation, (359) 20
 Cold stability, (377) 185
 Collagen, (364) 171; (366) 33; (368) 377; (368) 551
 Collagen lattice culture, (357) 287
 Collapsin, (370) 269
 Collectin, (376) 6

- Colony formation, (362) 257
 Color vision, (362) 247
 Colorectal carcinoma, (359) 97
 Compact denatured state, (367) 297
 Compartmental boundary, (369) 97
 Compartmentation, (373) 76
 Competitive displacement, (360) 111
 Competitive inhibition, (368) 97
 Competitive PCR, (374) 341
 Complement, (358) 323; (368) 87; (368) 401; (376) 31
 Complement factor D, (371) 300
 Complement fragment 5a, (359) 229
 Complement receptor type 2, (372) 291
 Complementation, (358) 43; (366) 99
 Complete relaxation matrix, (370) 163
 Complex, (363) 115
 Complex I, (367) 107
 Complex II, (359) 23
 Computer modeling, (377) 77
 Computer program, (376) 125
 Con A, (371) 287
 15-*cis* Configuration, (363) 137
 Confocal microscopy, (364) 198
 Conformation, (361) 29; (363) 65; (370) 105; (377) 363
 Conformation in solution, (374) 117
 Conformational change, (358) 133; (363) 118; (371) 39
 Conformational flexibility, (373) 239
 Conformational mobility, (371) 35
 Conformational probe, (361) 173
 Conformational search, (370) 1
 Conformational stability, (371) 94
 Conformational switch, (366) 87
 Congenital muscular dystrophy, (376) 37
 Congestive heart failure, (373) 97
 Conjugation, (371) 283
 ω Conotoxin MVIIIC receptor, (366) 21
 Consensus sequence, (361) 191; (368) 105
 Consensus sequence V3 loop, (374) 117
 Conserved core sequence, (358) 182
 Conserved negatively-charged residues, (371) 39
 Conserved sequence motif, (369) 57
 Conserved sequence region, (377) 6
 Constitutive, (372) 229
 Constitutive activity, (363) 261
 Constitutive and regulated cell, (362) 143
 Constitutive receptor activity, (377) 275
 Contact inhibition, (372) 33
 Contact site, (368) 15
 Contraction, (361) 51; (363) 235
Conus magus, (370) 163
 Convertase, (362) 143; (362) 276
 Cooperativity, (363) 81; (377) 330
 5-Coordinate vs. 6-coordinate heme systems, (370) 97
 Copper, (357) 135; (362) 197; (364) 75; (368) 432
 Copper chloride, (367) 19
 Copper oxidation, (377) 240
 Copper protein, (365) 92; (371) 276
 Copper salts, (368) 513
 Copper-dependent monooxygenase, (366) 165
 Copper(I), (362) 39
 Corneal endothelial cell, (361) 61
 Coronatin, (377) 523
 Coronin-homologue, (364) 283
 Corticosteroid-binding protein, (375) 159
 Corticotropin releasing hormone (CRH), (374) 113
 Corticotropin releasing hormone receptor, (374) 113
 Cortisol, (375) 159
 COS cell, (368) 321
 Cotranscription, (368) 429
p-Coumaric acid, (374) 157
 Coupling effect, (363) 127
 Covalent binding, (368) 87
 Covalent modification, (363) 307
 Covalent protein DNA link, (377) 258
 Cow brain, (375) 117
 CP55,940, (369) 177
 CpG, (376) 125
 Cpn60, (361) 55
 CR3, (373) 189
 Crassulacean Acid Metabolism (CAM), (377) 399
 Cre, (377) 92
 CREA, (371) 191; (376) 103
 Critical thiol, (358) 255
 Cross validation, (363) 127
 Cross-linking, (360) 160; (366) 17; (367) 19; (368) 235; (375) 11
 Cross-resistance, (374) 130
 Crustacyanin, (362) 34
 Cruzipain, (370) 101
 Cryo-electron microscopy, (369) 43
 Cryogenic transmission electron microscopy, (365) 27
Cryptococcus, (368) 326
 Cryptogein, (374) 203
 Cryptophycin, (377) 59
 Crystal, (359) 244; (374) 292
 Crystal structure, (369) 57; (374) 221
 2D Crystal, (359) 45
 α -Crystallin, (369) 305; (369) 321; (372) 283
 γ -Crystallin, (372) 283
 Crystallization, (357) 62; (363) 22; (363) 115; (367) 214; (368) 49; (369) 229; (372) 93; (373) 310; (374) 110
 Crystallography, (370) 209
 CsA, (371) 47
 c-Src kinase (CSK), (367) 149
 C-Terminal sequencing, (357) 65
 C-terminus, (357) 297
 C-type lectin, (376) 6
 C-type natriuretic peptide, (373) 108
 Cu/Zn superoxide dismutase, (374) 85
 Cubic membrane, (369) 13
 Cubic phase, (368) 143
 Cucumber mosaic virus, (372) 165
Cucumis sativus (cucumber), (362) 70; (367) 12
 Cu₂-deficient mutant, (370) 259
 Cultured endothelial cell, (376) 262
 Cultured neurons, (371) 249
 Curcacycline A, (358) 215
 Cu,Zn superoxide dismutase, (374) 199
 Cu,ZnSOD activity, (362) 323
 CVDIIIA, (358) 182
 CXXC motif, (372) 210
 Cyanide-resistant oxidase, (362) 10
 Cyanobacteria, *Synechocystis* sp. PCC 6803, (371) 89
 Cyanobacterium, (361) 111; (367) 45
 Cyclic ADP-ribose, (360) 303; (371) 204
 Cyclic ADP-ribose hydrolase, (368) 481
 Cyclic AMP, (364) 218; (368) 411
 Cyclic AMP-dependent protein kinase, (362) 291; (368) 563; (375) 294
 Cyclic GMP, (364) 314; (374) 295
 Cyclic peptide, (358) 215; (372) 203
 Cyclic voltammetry, (357) 55; (361) 75; (368) 220
 Cyclic-AMP analog, (367) 319
 Cyclic-AMP receptor (CAR1), (368) 358
 Cyclin B2, (370) 109
 Cyclin D1, (373) 164
 Cyclin-dependent kinase (Cdk), (360) 173; (362) 295; (367) 103
 Cycloheximide, (368) 110
 Cyclooxygenase, (371) 315
 Cyclooxygenase inhibitor, (360) 75
 Cyclophilin, (371) 47
 Cyclosporin A, (357) 221; (358) 158; (362) 239; (368) 101; (368) 110; (371) 258
 Cyclosporine, (358) 109
 Cystatin, (357) 309; (360) 101; (370) 101
 Cysteine, (364) 55
 Cysteine conjugate β -lyase, (360) 277
 Cysteine proteinase, (357) 309; (360) 101; (361) 179; (368) 397; (369) 326; (370) 78; (370) 101; (375) 169
 Cysteine proteinase inhibitor, (357) 309; (361) 179; (361) 185
 Cysteine synthesis, (358) 43
 Cysteine-S-conjugate β -lyase, (367) 141
 Cystic fibrosis, (361) 265; (363) 189; (374) 312
 Cystic fibrosis transmembrane conductance regulator (CFTR), (363) 189; (366) 87
 Cystine-knot, (376) 251
 Cystinuria, (368) 389
 Cytochrome, (357) 70

- Cytochrome *a*, (374) 371
 Cytochrome *b₅₅₈*, (367) 1; (367) 77; (370) 69; (377) 345
 Cytochrome *b*, *Bacillus subtilis*, (359) 23
 Cytochrome *b-559*, (377) 325
 Cytochrome *c*, (360) 255; (362) 266; (365) 30; (371) 267; (375) 206
 Cytochrome *c* gene, (360) 39
 Cytochrome *c* oxidase, (367) 291; (368) 148; (369) 136; (371) 267
 Cytochrome *c* peroxidase, (365) 152; (377) 145
 Cytochrome oxidase, (359) 27; (370) 53; (374) 371; (375) 206
 Cytochrome P450, (360) 10; (364) 79; (364) 152; (366) 159; (374) 174; (374) 270; (377) 213
 Cytochrome P₄₅₀, (368) 279; (374) 345; (375) 277
 Cytochrome P₄₅₀ reductase, (374) 345
 Cytochrome P-450 reductase, (361) 206
 Cytochrome-*c* oxidase, (368) 132
 Cytokine, (357) 1; (359) 262; (364) 229; (366) 159; (367) 93; (373) 39; (377) 237
 Cytokine receptor, (369) 169
 Cytokine receptor domain, (360) 43
 Cytokines, (369) 136
 Cytokinin-like substance, (365) 10
 Cytoplasm, (361) 135
 Cytoplasmic droplet, (361) 65
 Cytoplasmic dynein, (369) 101
 Cytoplasmic granule, (364) 268
 Cytoskeleton, (359) 229; (363) 231; (369) 38; (371) 29; (372) 161; (373) 76; (374) 149; (374) 284; (374) 393; (375) 243
 Cytosolic free Ca²⁺ concentration ([Ca²⁺]), (359) 137
 Cytotoxicity, (358) 175; (372) 1; (373) 151; (374) 333
- D. africanus*, (363) 199
 2-D gel protein databases, (369) 122
 2-D GTP ligand blotting, (369) 122
 D1 protein, (364) 239; (368) 263
 D96N mutant, (377) 330
 DAD1, (363) 304
 DAMGO, (357) 93; (375) 1
 DANG cell, (368) 45
 Dansyl chloride, (363) 307
 DARPP-32, (364) 67
 dbEST, (377) 475
 d(CACGTG)₂, (360) 231
 De novo design, (361) 176
 Deacylation, (358) 71
 DEAD box protein, (363) 25
 Deamidation, (358) 171
 Death domain, (367) 39; (371) 321
 Decrease of DNA content, (367) 188
 Defense factor, (377) 373
 β -Defensin, (368) 331
 Degradation, (369) 249
 Degranulation, (369) 301; (371) 300
 Dehalogenase, (358) 171
 Delayed rectifier, (371) 307
 Delayed-type hypersensitivity, (363) 53
 Demembranated-reactivated spermatozoa, (368) 420
 Denaturation, (362) 43; (370) 105; (375) 174
 Dendrite, (368) 455
 Dendritic cell, (373) 127
 Denitrification, (360) 151; (371) 73
 2-Deoxyglucose, (365) 98
 Deoxyribonuclease I, (359) 211
 6-Deoxytalose, (371) 163
 Dependence on Mg²⁺ ion, (368) 304
 Dephosphorylation, (375) 75
 Depolarization, (361) 145; (366) 131
 Deprenyl, (358) 145
 Dequalinium, (359) 69
 Der f 3, (377) 62
 Dermatomyositis, (358) 262
 Dermonecrosis, (376) 135
 Desensitization, (359) 142; (361) 162; (367) 301; (369) 263
 Design (de novo), (375) 15
 Design principle, (367) 73
 Desmin, (358) 185
 Detection, (358) 179
 Detergent, (375) 188
 Detergent-insoluble complex, (377) 465
- Determination of binding constant, (360) 111
 De-ubiquitinase, (376) 233
 De-ubiquitinating enzyme, (359) 73
 Development, (362) 337; (365) 42; (377) 403
 Development (*Sphaerechinus granularis*), (361) 115
 Developmental expression, (362) 342
 Dexamethasone, (363) 285
 Dextran, (371) 57
 DHFR, (377) 290
 Diabetes, (367) 193; (368) 31; (368) 36; (368) 225; (371) 81; (371) 324; (374) 43; (375) 41
 Diabetes mellitus, (363) 277
 Diabetic nephropathy, (375) 41
 Diacylglycerol, (360) 242; (367) 301; (368) 143; (369) 18
 Diacylglycerol acyltransferase, (375) 188
 2,4-Diamino-6-hydroxy-pyrimidine, (363) 69
 Diaminoalkane, (361) 277
 Diclofenac, (360) 75
Dictyostelium, (369) 38; (375) 87
Dictyostelium discoideum, (359) 119; (362) 342; (368) 358; (368) 381; (374) 100
Dictyostelium discoideum amoeba, (364) 276
 Dielectric constant, (374) 338
 Diethylmaleate, (371) 209
 DI⁺, (359) 119
 Differential scanning calorimetry, (364) 9
 Difference spectrophotometry, (374) 192
 Differential display, (371) 209; (372) 69; (372) 189
 Differential gene regulation, (358) 62
 Differential hybridization, (357) 129
 Differential processing, (365) 108
 Differential scanning calorimetry, (358) 17; (358) 247; (360) 247; (361) 173; (371) 123
 Differential screening, (363) 41
 Differential spectrophotometry, (377) 44
 Differentiation, (358) 105; (358) 233; (363) 293; (363) 311; (364) 193; (364) 298; (367) 103; (368) 81; (369) 183; (369) 340; (374) 69; (374) 367; (375) 299
 Differentiation marker, (358) 84
 Differentiation (phorbol ester-induced), (368) 477
 Digitalis receptor, (359) 107
 Digoxigenin-labelled oligonucleotide, (368) 488
 Dihomogamma linolenic acid, (361) 118
 Dihydrofolate reductase gene, (359) 89
 7,8-Dihydroneopterin, (364) 234; (377) 461
 Dihydropinosylvin, (361) 299
 Dihydroxyethylthiamine pyrophosphate, (375) 220
 1 α ,25-Dihydroxyvitamin D₃, (375) 299
 Dimer, (367) 315; (368) 55; (372) 169
 7,12-Dimethylbenz[a]anthracene, (358) 243
 N^ε-(N,N-Dimethylcarbamoyl)- α -aza-lysine *p*-nitrophenyl ester, (358) 53
 Dinophyceae, (363) 175
 Dinucleotide, (376) 125
 Dioxygen reduction chemistry, (370) 259
 Diphenyleneiodonium, (373) 307
 Diphenyleneiodoniumchloride, (376) 45
 Direct interfacial localization, (377) 408
 DiSC₃(5), (376) 167
 Discontinuous gene, (370) 222
 Dispensable gene, (362) 257
 Displacement method, (362) 189
 Dissociation constant, (366) 156
 Distal heme pocket, (370) 97
 Disulfide, (371) 341; (376) 1
 Disulfide bond, (364) 55; (368) 481
 Disulfide bond formation, (370) 273
 Disulfide bridge, (369) 239; (372) 203; (377) 172
 Disulfide reduction, (370) 209
 Dithiothreitol-sensitive tetrameric protease, (371) 195
 Dityrosine, (364) 279
 Divalent adhesive protein, (374) 262
 Divinyl ether oxylipin, (371) 159
 Dlg-A, (359) 159
 Dmc-azaLys-ONp, (358) 53
 DNA, (361) 265; (363) 115; (370) 105; (371) 279; (377) 301
 DNA alkylation, (360) 231
 DNA base modification, (374) 233; (375) 179

- DNA binding, (360) 315; (361) 89; (371) 47; (373) 88
 DNA binding domain, (358) 278
 DNA binding motif, (359) 184
 DNA binding protein, (360) 125
 DNA cleavage, (364) 75; (372) 144; (373) 88
 DNA curvature, (364) 33
 DNA damage, (374) 233; (375) 179; (376) 207
 DNA digestion, (377) 9
 DNA fragmentation, (364) 139; (367) 188; (373) 299; (375) 21
 DNA gyrase, (373) 88
 DNA methylation, (357) 192; (361) 115; (370) 75; (370) 170; (371) 181
 DNA methyltransferase, (361) 115
 DNA-peptide interaction, (374) 387
 DNA photocleavage, (374) 426
 DNA polymerase, (357) 23
 DNA polymerizing activity, (369) 165
 DNA-protein binding, (360) 115
 DNA-protein complex, (362) 59
 DNA-protein cross-linking, (375) 27
 DNA-protein interaction, (362) 210; (369) 153; (369) 277; (372) 215
 DNA recognition, (372) 144; (372) 215; (375) 27
 DNA repair, (364) 255; (374) 287; (377) 118
 DNA replication, (362) 116
 DNA sequence, (364) 33
 DNA sequence recognition, (360) 21
 DNA sequencing, (359) 203; (366) 46
 DNA substitution, (368) 304
 DNA superstructure, (364) 17
 DNA synthesis, (371) 185; (372) 259; (373) 310
 DNA topoisomerase I, (368) 97
 DNA triple helix, (360) 21
 DNA triplex, (370) 153
 DNA/drug interaction, (375) 304
 DNA/RNA chimeric ribozyme, (357) 317
 DNA-binding protein, (360) 187; (369) 113; (376) 103; (377) 98
 DnaJ, (359) 129
 DnaJ, in vitro protein synthesis, (375) 211
 DnaK, (375) 211
 DNase I footprinting, (357) 312
 2D NMR, (357) 317
 DNP, (365) 7
 dNTP utilization, (369) 165
 Docosahexanoic acid, (361) 118
 7,10,13,16-Docosatetraenoic acid, (367) 198
 Dolichol synthesis, (358) 230
 Dolichyl phosphate-D-mannose, (377) 128
 Domain, (357) 309
 Domain function, (363) 299
 Domain interaction, (358) 247
 Domain structure, (373) 296; (376) 49
 Donor side, (363) 251
 D-DOPA, (364) 75
 D-Dopachrome tautomerase, (373) 203
 Dopamine, (361) 215
 Dopamine D1 receptor, (374) 273
 Dopamine hydroxylation, (366) 165
 Dorsal root ganglion, (364) 129
 Double helix, (371) 279
 Double mutant, (370) 59
 Doubly-wound α/β fold, (358) 283
 Down-regulation, (358) 105; (376) 11
 Doxorubicin, (377) 201
 5-DOXYL-stearic acid, (361) 303
Drosophila, (365) 83
Drosophila ion channel, (358) 297
Drosophila melanogaster, (357) 283; (370) 250; (371) 311; (375) 148
Drosophila virilis, (360) 194
 Drug design, (374) 379
 Drug efflux, (373) 285
 Drug resistance, (367) 112
 Drug targeting, (376) 95
DsbA, (364) 55
DsbB, (364) 55
 ds-DNA, (374) 387
 DSIP and analogues, (368) 367
 ds-RNA specific RNase, (372) 165
 Duplex formation, (360) 231
 Dwarfing, (358) 182
dy mouse, (376) 37
 Dynamic light scattering, (359) 220; (376) 49
 Dynamics, (366) 104
 Dynamin, (367) 272; (369) 3
 Dystroglycan, (364) 245; (368) 139
 Dystrophin, (357) 125; (358) 153; (358) 262; (368) 500; (369) 27; (375) 91; (375) 268
 Dystrophin-associated protein, (367) 311
 Dystrophin glycoprotein complex, (364) 245
 E box, (366) 131
 E1 protein, (375) 134
 β E54 as covalent catalytic residue, (357) 145
 E7, (371) 214
 EBNA2, (371) 245
 Ebulin I, (360) 299
 Ebulin, (360) 299
 EC 3.4.11.2, (374) 341
 E-cadherin, (374) 415
 Ecotin, (365) 159
Ectothiorhodospira halophila, (374) 157
 EDF/activin A, (374) 69
 EDTA dependent phosphorylation, (364) 63
 EF hand, (362) 55
 EF- α , (377) 313
 Effector, (369) 52; (369) 287
 Effector interaction, (364) 45
 EF-Tu homolog, (358) 119
 EGF, (357) 251
 EGF receptor, (357) 161; (357) 251
 Egg jelly coat, (358) 205
 Egyptian mummy, (375) 280
 Ehrlich ascites carcinoma, (375) 21
 Eicosanoid, (358) 316
 Eicosanoids receptor, (361) 17
 eIF-1, (365) 47
 eIF2, (372) 249
 eIF-4E, (360) 191
 eIF-5A, (366) 92
 Elastase, (357) 247; (361) 265
 Elastin, (362) 225
 Elastin fragment, (368) 215
 Elastin synthesis, (368) 215
 Elastin-binding protein, (375) 159
 Electric birefringence, (369) 255
 Electric field, (377) 419
 Electrogenic H⁺-transporter, (375) 79
 Electroinsertion, (359) 9
 Electron cryomicroscopy, (373) 262
 Electron microscopy, (358) 17; (368) 139; (371) 77; (376) 67
 Electron paramagnetic resonance, (367) 1; (369) 252; (377) 345
 Electron Spin Resonance, (376) 58
 Electron transfer, (357) 70; (361) 97; (365) 30; (375) 197
 Electron transport chain, (373) 307
 Electrooptics, (377) 419
 Electrophoresis, (370) 212
 Electrophysiology, (369) 290
 Electrospray ionization mass spectrometry, (358) 323; (374) 208
 Electrospray mass spectrometry, (357) 187; (359) 192; (360) 93; (360) 231
 Electrostatic interactions, (368) 551; (374) 387
 Elicitor, (360) 57; (374) 203
 ELISA, (375) 280; (377) 118
 Elongation factor, (358) 119
 Elongation factor Ts, (368) 49
 Elongation factor Tu, (357) 19; (358) 71; (365) 214; (377) 253
 Embryonal carcinoma cell, (370) 231
 Embryonal development, (371) 297
 Enalapril, (361) 22
 Endocytic pathway, (369) 84
 Endocytosis, (357) 109; (358) 73; (360) 70; (360) 266; (366) 65; (367) 272; (369) 3; (369) 101; (376) 95
 Endoglucanase, (376) 49
 Endoglycoceramidase, (374) 299
 Endonuclease, (364) 264
 Endopeptidase, (357) 129

- Endoplasmic reticulum, (357) 305; (362) 126; (362) 229; (369) 76; (369) 89; (369) 93; (370) 69; (371) 145; (372) 210; (376) 53; (377) 31; (377) 271
- Endoribonuclease, (371) 345
- Endosome, (368) 125; (368) 358
- Endothelial cell, (361) 118; (361) 291; (362) 276; (363) 277; (364) 314; (372) 194
- Endothelin, (371) 140; (374) 379
- Endothelin receptor, (361) 243; (363) 161; (371) 188
- Endothelin-1, (362) 276; (371) 188; (373) 97
- Endothelin-1 secretion, (376) 262
- Endothelin-converting enzyme, (371) 140
- Endothelium, (357) 140; (370) 215; (374) 323
- Endotoxic shock, (366) 127
- Endotoxin, (370) 46; (372) 229; (376) 65
- δ -Endotoxin, (360) 217; (362) 111
- Endozepine, (362) 106
- Energy transfer, (374) 105
- Energy-coupling, (370) 83
- Engineered monomer, (366) 72
- engrailed*, (365) 71
- Enhancer, (358) 13; (369) 335
- Enkephalin, (357) 187
- [D-Ala², MePhe⁴, Gly(ol)⁵]Enkephalin, (364) 23
- 5-Enolpyruvyl shikimate 3-phosphate synthase, (374) 253
- Enolpyruvyl transferase, (377) 208
- Entamoeba histolytica*, (362) 316
- Enterococcus hirae*, (359) 255
- Entero-endocrine cell, (374) 34
- env*, (365) 141
- Enzymatic catalysis, (366) 61
- Enzymatic oxidation, (371) 132
- Enzymatic synthesis, (367) 67
- Enzyme activation, (361) 287; (363) 1; (371) 57
- Enzyme active site, (377) 208
- Enzyme concentration, (368) 559
- Enzyme control, (361) 115
- Enzyme family, (367) 237
- Enzyme I, (374) 161
- Enzyme inactivation, (359) 35; (367) 45
- Enzyme inhibitor, (361) 1
- Enzyme kinetics, (358) 53; (361) 265; (364) 59
- Enzyme mechanism, (358) 57; (361) 1; (364) 215; (368) 203; (374) 221; (377) 208
- Enzyme phosphorylation, (367) 263
- Enzyme regulation, (366) 170
- Enzyme stability, (367) 73
- Enzyme structural symmetry, (373) 259
- Enzyme structure, (361) 1; (368) 559
- Enzyme-substrate interaction, (361) 259
- Eosinophil, (361) 229; (363) 217
- EP4 subtype, (364) 339
- Eph*, (368) 353
- Epidermal growth factor, (360) 242; (376) 177
- Epidermal growth factor binding protein, (376) 177
- Epidermal growth factor family, (377) 403
- Epimerisation, (358) 97
- Epinephrine, (363) 13; (365) 98
- 8-Epi-PGF_{2 α} , (368) 225
- Epiregulin, (377) 403
- Epithelial cell, (359) 262; (376) 74
- Epithelium, (357) 140
- Epitope mapping, (363) 195
- Epoxidation, (376) 45
- EPR, (359) 239; (368) 31; (368) 117; (368) 220; (368) 285; (370) 53; (370) 159; (372) 126; (374) 265
- EPR spectroscopy, (370) 83; (374) 371
- Ergosterol, (372) 29
- Erythrocyte, (359) 9; (359) 35; (362) 165; (371) 297
- Erythroleukemia, (374) 69
- Erythroleukemia cell, (358) 233
- Erythropoietin, (359) 267
- Erythropoietin receptor, (373) 225
- Escherichia coli*, (358) 293; (359) 251; (361) 211; (363) 46; (364) 272; (365) 155; (366) 115; (367) 49; (367) 183; (368) 49; (368) 429; (369) 158; (371) 127; (372) 253; (373) 10; (374) 82; (374) 161; (374) 199; (377) 41; (377) 172
- Escherichia coli*, Deoxyribonucleotide synthesis, (368) 441
- Escherichia coli* periplasm, (364) 55
- E. coli* bo-type ubiquinol oxidase, (370) 259; (374) 265
- ESEEM, (368) 31
- E-selectin, (367) 205
- ESR, (358) 251; (372) 103
- Esterase, (360) 194; (371) 231; (377) 475
- Estrogen, (360) 291; (376) 151; (377) 103
- Ethanol, (357) 58; (375) 53; (375) 174
- Ethanolamine, (357) 279; (358) 243
- Ethanol-intoxication, (372) 140
- Etoposide, (367) 188; (377) 9
- ETS-domain, (368) 77
- Eukaryote, (365) 47
- Eukaryotic cell, (366) 65; (373) 159
- Eukaryotic initiation factor 5A, (364) 207
- Euphorbiaceae, (358) 215
- Evolution, (360) 223; (364) 103; (364) 289; (365) 71; (368) 541; (374) 53; (375) 148; (377) 98
- Evolutionary relatedness, (377) 6
- EXAFS, (358) 278
- Exchange, (360) 255
- Excised membrane patch, (359) 85; (366) 49
- Excitation-contraction, (369) 43
- Excitation-contraction coupling, (359) 223
- Excitation-transcription coupling, (366) 131
- Exciton interaction, (368) 370
- Exocytosis, (360) 242; (360) 266; (363) 217; (363) 221; (364) 328; (365) 209; (368) 122; (369) 3; (369) 101; (374) 77; (377) 489
- Exoenzyme C3, (372) 161
- Exon, (374) 53
- Expression, (358) 119; (362) 171; (367) 28; (371) 315; (371) 341; (372) 189; (375) 121
- Expression in *E. coli* cell, (368) 466
- Expression system, (361) 65
- Expression vector, (367) 49; (371) 9
- Extended X-ray absorption fine structure, (358) 278
- External alkalinity, (371) 249
- Extracellular loops, (375) 1
- Extracellular matrix, (357) 33; (361) 61; (365) 183; (368) 307; (376) 159
- Extracellular matrix protein, (357) 121
- Extracellular signal-regulated kinase, (376) 141
- Extrachromosomal DNA, (363) 239
- Extrinsic polypeptide (16 kDa, 23 kDa, 33 kDa), (360) 251
- Ezrin, (376) 172
- Fab*, (360) 247; (360) 247
- Fab fragment, (362) 43
- F-actin capping protein, (374) 284
- Factor VIIa, (374) 141
- Factor Xa inhibitor, (370) 1; (375) 103
- Factor XIIa, (365) 159
- Facultative phototrophs, (375) 197
- FAD, (369) 173; (369) 233; (376) 45
- FAD-containing monooxygenase, (358) 145
- FAK, (373) 135
- FALL-39, (368) 173
- Familial amyloidotic polyneuropathy, (359) 203
- Familial amyotrophic lateral sclerosis, (368) 449
- Family F xylanase, (362) 281
- Fas, (371) 321; (376) 15
- Fas antigen, (364) 134
- Fas ligand, (373) 265
- Fas/Apo-1, (364) 5; (364) 139
- Fast, (373) 131
- Fasting, (368) 488
- Fat body, (376) 185
- F₁ATPase, (358) 142; (368) 207; (371) 115; (373) 66; (373) 141; (376) 190; (377) 408
- F₁-ATPase α/β heterodimer, (368) 207
- F₁-ATPase cooperativity, (368) 207
- F₁-ATPase core unit, (368) 207
- Fatty acid, (359) 179; (361) 118
- Fatty acid amide, (377) 82
- Fatty acid binding site, (361) 303
- Fatty acid synthase, (371) 324; (374) 246
- Fatty acid unsaturation, (364) 239
- Fatty acid uptake, (375) 227
- Fatty acid-binding protein, (374) 184

- Fatty acid-responsive element, (361) 118
 Fatty acids, (375) 53
 Fatty acylcarnitine, (357) 75
 Fatty acyl-coenzyme A, (357) 75
 Fc receptor, (376) 77
 FCCP, (361) 145; (365) 7
 FcεRI receptor, (357) 41
 Fcγ receptor, (368) 377
 FcγR, (373) 189
 FDC-P1 cells, (368) 69
 6Fe ferredoxin, (368) 23
 [3Fe-4S], (368) 23
 Ferredoxin, (359) 50; (361) 35; (363) 199
 Ferredoxin I, (368) 220
 Ferredoxin:plastoquinone oxidoreductase, (367) 107
 Ferric nitrilotriacetate, (357) 165
 Ferroxidase, (368) 513
 Fertilization, (357) 98
 α-Fetoprotein, (364) 165
 F₀F₁, (362) 171
 F₀F₁ H⁺-ATPase, (368) 253
 F₁-F₀ ATP synthase, (366) 29; (368) 235
 FGF9, (370) 231
 Fibrinogen, (357) 129; (358) 179
 Fibrinogen degradation product, (376) 65
 Fibroblast, (357) 287; (361) 162; (363) 141; (364) 5
 Fibroblast cell line, (368) 311
 Fibroblast growth factor, (372) 44
 Fibroblast growth factor family, (363) 226
 Fibronectin, (363) 78; (364) 193; (367) 93; (373) 135
 Fibrosis, (357) 33
 Ficolin, (375) 159
 Filamentous phage, (377) 227
 Filariasis, (374) 122
 Fimbria, (362) 1
 Fimbrial adhesin, (357) 103
 Fimbrial subunit, (364) 319
 FISH, (375) 263
 Fish antifreeze protein, (357) 183
 Fish skin, (360) 197
 F₂-isoprostane, (368) 225
 Fission yeast, (375) 235; (377) 155
 FixJ, (367) 180
 FixL, (367) 180
 FK506, (357) 221; (358) 158
 FKBP, (374) 211
 FKBP25mem, (372) 169
 Flagellum, (364) 147
 Flash photolysis, (364) 198; (364) 335
Flaveria trinervia, (375) 95
 Flavin, (374) 82
 Flavin-containing monooxygenase (FMO), (376) 45
 Flavin-dependent reductase, (361) 97
 Flavoprotein, (361) 97; (374) 82
 Flexibility, (369) 305
 Flip, (373) 93
 Flop, (373) 93
 Flow cytometry, (359) 9
 Fluorescence, (360) 202; (361) 123; (365) 27; (368) 64; (370) 193
 Fluorescence enhancement, (363) 189
 Fluorescence lifetime distribution, (374) 338
 Fluorescence recovery after photobleaching, (376) 77
 Fluorescence spectrometry, (367) 163
 Fluorescence spectroscopy, (370) 189; (375) 231
 Fluorescent inhibitor, (362) 189
 Fluoromethylaniline, (368) 279
 3-Fluoro-tyrosine, (374) 165
 fMLF-receptor, (377) 426
 fMLP, (367) 117
 FMN, (369) 173
¹⁹F NMR, (374) 165
 FNR, (360) 151; (371) 73
 Focal adhesion kinase, (368) 343; (373) 135
 Folate, (360) 177; (368) 177
 8-Fold β/α-barrel, (362) 281
 Folding, (360) 307
 Folding, in vivo, (369) 72
 Folding kinetics, (364) 175
 Folding topology, (359) 184
 Footprinting, (361) 259
 Foreign peptide, (359) 247
 Formaldehyde elimination, (370) 23
 N-Formyl-Met-Leu-Phe, (359) 229
 Formate binding, (357) 227
 19-Formyl-1[21H,22H]bilinone, (364) 41
 Forskolin, (361) 70
 Four helix bundle, (368) 519
 Fourier transform infrared spectroscopy, (358) 9; (370) 88; (370) 241; (371) 115
 Fourier transform IR spectroscopy, (377) 135
 Fracture, (364) 171
 Frameshift, (364) 1
 Free radical, (364) 314; (370) 37; (373) 299; (375) 53; (376) 164
 Freeze-fracture, (377) 181
 Freezing point depression, (357) 183
 Fructation, (375) 41
 Fructose-1,6-bisphosphatase, (368) 559
 Fruit-ripening, (358) 149
frz, (358) 31
 FT-IR, (364) 152
 FTIR spectroscopy, (358) 27; (363) 65; (364) 175; (370) 105; (371) 199
 FtsY, (372) 253
 Fucose binding site, (363) 123
 Function, (367) 280
 Functional complementation, (376) 81; (377) 434
 Fura-2, (359) 155; (359) 223; (362) 316; (369) 263
 Furin, (362) 276; (365) 95; (375) 259
 Furin-deficient CHO, (365) 95
 Fused gene, (377) 172
 Fused protein, (359) 247; (377) 172
 Fusion, (369) 80
 Fusion peptide, (362) 243
 Fusion pore, (363) 217
 Fusion protein, (364) 1; (368) 39; (369) 197; (374) 345
 Fv, (360) 247
 Fyn, (368) 491; (373) 265
 G-TA triplet, (360) 21
 G_{aq}, (357) 13; (364) 45; (372) 33; (375) 183
 G protein, (360) 97; (363) 49; (367) 122; (368) 183; (370) 6; (371) 43; (372) 99; (372) 161; (373) 155
 G protein α-subunit, (365) 13
 G protein-coupled receptor, (359) 142; (361) 243; (362) 131; (375) 121
 G protein-linked receptor, (361) 215
 GA module, (374) 257
 Gα-16, (377) 426
 GABA, (373) 229
 GABA transport, (371) 39
 GABA uptake, (375) 99
gag, (365) 141
 Gag protein, (377) 67
Gag-Pol, (364) 1
 GAL4 fusion protein, (369) 153
 α-Galactosidase A, (371) 181
 β-Galactoside binding lectin, (359) 169; (368) 285
 β-Galactoside-binding protein, (373) 159
 Galectin, (359) 169; (360) 160
 Gamma-glutamyltransferase, (369) 183
 Ganglioside, (358) 79; (361) 201; (362) 161; (374) 299; (376) 159
 Ganglioside GM1, (375) 11
 Gap junction, (358) 301
 GAP peptide, (368) 297
 Garlic, (371) 159
 Gas exchange, (362) 180
GAS1, (358) 165
 Gastric adenocarcinoma, (369) 225
 Gastrin, (359) 97
 Gastrin promoter, (369) 225
 Gastrin receptor, (359) 97
 Gastrointestinal transit, (369) 192
 Gastrula, (369) 221
Gβγ, (362) 286
GBX class, (364) 289
 GC-MS, (366) 81; (374) 233; (375) 179
 GdCl₃, (372) 140
 GDP/GTP-binding protein, (377) 253

- 2-D gel electrophoresis, (369) 122
 Gelatinase, (357) 255; (361) 61; (377) 267
 Gelatinase A, (358) 189
 Gelatinase B, (360) 75
 Gel-filtration, (364) 115
 Gelonin, (373) 115
 Gelonin-gp330 conjugate, (373) 151
 Gelsolin, (360) 227
 Geminivirus, (362) 116
 Gene, (361) 233; (374) 53
 Gene amplification, (377) 290
 Gene cloning, (357) 16; (377) 172
 Gene cluster, (377) 429
 Gene duplication, (366) 33
 Gene expression, (360) 29; (362) 1; (362) 85; (362) 210; (362) 309; (368) 556; (371) 209; (373) 217; (374) 279; (374) 384; (375) 263; (376) 67; (376) 99; (377) 505
 Gene expression regulation, (367) 319; (375) 268
 Gene family, (360) 15; (377) 383; (377) 399
 Gene fusion, (376) 229
 Gene organisation, (361) 215
 Gene regulation, (358) 13; (360) 151; (367) 93; (372) 194
 Gene structure, (365) 108; (368) 197; (377) 485
 Gene therapy, (365) 223; (373) 41
 Gene transcription, (365) 101; (369) 335
 Gene transfer, (374) 152
 Genetic backcross, (363) 25
 Genetic disease, (359) 6
 Genetic locus, (375) 263
 Genetic variation, (359) 211
 Genetics, (377) 413
 Genomic DNA cloning, (376) 146
 Genomic imprinting, (374) 57
 Genomic mutation, (369) 34
 Genomic structure, (375) 50
 GFP, (369) 267
 GGPI, (358) 165
 GH₄/B₆ cells, (367) 127
 Gil-type G-protein, (361) 106
 GIP receptor, (373) 23
 GIRK1, (374) 135
 GLC, (366) 81
 Glial cell, (362) 106; (364) 301
 Glial fibrillary acidic protein, (358) 185
 Glibenclamide, (371) 137
 Glioma, (361) 201; (369) 260; (372) 78
 Globular DNA, (361) 277
 $\alpha_{2\mu}$ -Globulin, (357) 165
 Glomerular basement membrane, (375) 41
 Glomerulonephritis, (370) 141
 GLP-1 receptor, (373) 182; (358) 219
 Glucagon, (370) 131; (377) 439
 Glucagon-like peptide-1, (372) 269
 β -Glucan, (358) 165
 1,3-1,4- β -D-Glucan 4-glucanohydrolase, (374) 221
 β -Glucan hydrolysis, (374) 221
 1,3-1,4- β -Glucanase, (374) 221
 $\beta(1-3)$ and $\beta(1-3,1-4)$ Glucanase, (362) 281
 Glucoamylase structure, (358) 57
 Glucocorticoid, (376) 151
 Glucocorticoid receptor, (362) 309
 Glucokinase, (359) 81; (371) 329
 Glucose, (363) 277
 Glucose dehydrogenase, (364) 325
 Glucose homeostasis, (371) 329
 Glucose inactivation, (367) 219
 Glucose metabolism, (377) 439
 Glucose repression, (368) 547; (371) 191
 Glucose responsiveness, (365) 223
 Glucose transport, (361) 51; (365) 98; (368) 19
 Glucose transporter, (371) 324
 Glucose-6-phosphate dehydrogenase, (366) 61
 β -Glucosylarginine, (376) 61
 Glucosylceramide synthase, (375) 249
 β -Glucuronidase, (369) 239
 GluR-A to GluR-D, (373) 93
 GLUT1, (368) 19
 GLUT1 glucose transporter, (370) 19
 GLUT3, (368) 19
 GLUT4, (368) 19; (374) 43
 Glutaconate CoA-transferase, (357) 145
 Glutamate, (360) 266; (367) 233
 Glutamate dehydrogenase, (367) 291
 Glutamate mutase, (369) 252
 Glutamate receptor, (363) 184; (368) 230; (377) 390
 Glutamine synthetase, (367) 45; (371) 287
 Glutamine transaminase K, (360) 277; (367) 141
 Glutaminergic neuron, (367) 233
 Glutaredoxin, (369) 149; (370) 209; (374) 25
 Glutathione, (357) 1; (357) 83; (368) 73; (368) 385; (376) 81
 Glutathione S-transferase, (366) 151; (371) 94
 Glutathione synthetase, (376) 81
 Gluten, (372) 103
 N-Glycan, (365) 57
 Glycation, (375) 41
 Glyceraldehyde 3-phosphate dehydrogenase, (359) 126; (368) 92; (375) 18
 Glycerol production, (376) 199
 Glycine receptor, (368) 495
 Glycogen, (362) 101; (375) 294
 Glycogen biosynthesis, (362) 271
 Glycogen metabolism, (375) 294
 Glycogen phosphorylase, (372) 108
 Glycogen synthase, (362) 101
 Glycogen synthase kinase-3, (365) 42
 Glycogenin, (359) 110; (362) 271
 Glycogenolysis, (376) 65
 Glycolipid, (366) 81
 Glycolysis, (374) 100
 Glycopeptidolipid, (375) 254
 Glycoprotein, (360) 1; (369) 260; (370) 41; (371) 13; (377) 128
 P-Glycoprotein isoforms, (374) 179
 Glycoprotein processing, (359) 53
 Glycosaminoglycan synthesis, (373) 207
 Glycosome, (360) 310
 Glycosphingolipid, (362) 161; (368) 477; (369) 18; (374) 299
 Glycosyl hydrolase, (362) 281; (377) 6
 Glycosylation, (365) 83; (365) 179; (375) 63
 N-Glycosylation, (373) 225
 N-Glycosylation ('brain-type'), (359) 164
 Glycosylphosphatidylinositol (GPI)-anchored protein, (361) 295
 Glycosylphosphatidylinositol-linked molecule, (360) 34; (360) 34
 Glycosyltransferase, (358) 79; (375) 63
 Glycosyltransferase gene, (360) 1
 Glycyl-histidyl-lysine, (376) 216
 Glyoxylate cycle, (367) 219; (377) 197
 Glyoxysomal succinate oxidase, (367) 287
 Glyoxysome, (374) 225
 Glyphosate, (374) 253
 GM3 synthase, (362) 161
 Gold, (361) 89
 Gold drug, (376) 1
 Golgi, (377) 271
 Golgi apparatus, (369) 84
 Golgi glycosyltransferase, (370) 41
 Golgi membrane, (369) 89
 Gonadotropin, (374) 184
 Gouy-Chapman theory, (369) 140; (373) 81
 gp120, (367) 251; (368) 267; (374) 117
 gp130, (360) 43; (369) 187
 GPA1, (367) 122
 GPI-anchored protein, (369) 207
 G-protein, (358) 297; (361) 46; (361) 162; (362) 286; (363) 261; (364) 45; (375) 183; (375) 201
 G-protein coupled, (374) 273
 G-protein coupled receptor, (357) 27; (374) 379; (377) 73
 G-protein G_o, (370) 135
 G-protein receptor, (362) 247
 G-protein-coupled receptor, (372) 173
 G-protein-linked receptor, (362) 185
 Gramicidine A, (371) 35
 Gram-positive bacteria, (362) 29
 Granulosa cell, (362) 147
 Granzyme, (364) 268
 Grb2, (369) 47
 Green algae, (370) 222

- Green fluorescent protein, (369) 267; (369) 331; (375) 125
 Green sulfur bacteria, (365) 30
 GroEL, (359) 195; (361) 55; (361) 211; (362) 121; (366) 17
 GroEL-GroES complex formation, (369) 283
 GroES, (359) 123; (361) 211; (366) 17
 Group II phospholipase A₂, (370) 141
 Growth arrest, (364) 309
 Growth factor, (376) 216; (376) 251
 Growth hormone, (369) 169
 Growth inhibition, (358) 84; (369) 161
 Growth on glycerol, (360) 286
 Growth-associated protein, (357) 217
 Growth-blocking peptide, (376) 185
 Gruel, (374) 12
 GSK-3, (358) 4; (358) 267
 GT pair, (357) 317
 GTP, (376) 113
 GTP binding, (372) 249
 GTP binding protein, (363) 78
 GTP cyclohydrolase I, (363) 69; (368) 336
 GTP hydrolysis, (357) 19; (370) 135
 GTPase, (365) 214; (376) 113; (377) 253
 GTPase activity, (365) 13
 GTP-binding blot overlay assay, (377) 221
 GTP-binding protein, (361) 70; (365) 214; (370) 27; (373) 155; (375) 143; (377) 333
 GTPyS, (367) 246
 Guanine, (370) 193
 Guanine nucleotide regulatory protein, (371) 209
 Guanosine triphosphate, (363) 49
 Guanylate cyclase activating peptide II, (374) 34
 Guanylate kinase, (359) 159
 Guanylin, (374) 34
 Guanylyl cyclase inhibitor, (376) 262
 Guard cell, (362) 180
 Gyrase hybrid, (373) 88
- ¹H NMR, (358) 133; (358) 205; (361) 167; (363) 199; (368) 279; (368) 441; (370) 245; (371) 35; (376) 1; (376) 190; (376) 216
 H19, (374) 57
Haematococcus pluvialis, (364) 125
 α -Haemolysin, (371) 303
Halobacterium halobium, (377) 330
 Haloperoxidase, (359) 244
 Hammerhead, (361) 273
 Hammerhead ribozyme, (374) 241
Hansenula, (366) 137
 Harderian gland, (376) 257
 H⁺-ATPase, (373) 262; (374) 17; (374) 72
 H⁺-ATPase activation, (367) 167
 HAV binding antibody, (367) 85
 H⁺-conductance, (374) 17
 Heart, (360) 144; (375) 56
 Heat denaturation, (357) 58; (366) 156
 Heat shock, (362) 309; (370) 159; (371) 337; (372) 181; (377) 185; (377) 457
 Heat shock factor, (372) 181
 Heat shock promoter, (369) 331
 Heat shock protein, (369) 72; (371) 214
 Heat-shock protein 70, (368) 435; (372) 1
 Heat shock proteins, (375) 21
 Heat shock [Ca²⁺]_i, (375) 83
 Heat stability, (374) 199
 Heat-stable enterotoxin, (362) 319
 Heavy water, (374) 338
 Hedamycin, (360) 231
 HEK 293 cell, (373) 182
 HEK 293 transfectant, (376) 19
 HeLa cell, (373) 61
 Helicase, (376) 221
 Helix, (374) 21
 Helix bundle geometry, (377) 377
 Helix stabilization, (361) 176
 Helix-loop-helix, (374) 279
 Helix-turn-helix motif, (375) 27; (377) 98
 Hemagglutinating activity, (377) 54
 Hematopoietic cell line, (369) 183
 Hematoporphyrin, (360) 47
 Heme, (369) 233
 Heme group, (371) 89
 Heme oxygenase, (372) 279
 Heme oxygenase-1, (368) 239
 Heme resonances, (367) 77
 Heme-copper binuclear center, (370) 259
 Heme-heme interaction, (374) 39
 Hemocyanin, (364) 9
 Hemofiltrate, (368) 331
 Hemoglobin, (364) 115; (372) 126
 Hemolysin A C-terminal signal, (366) 1
 γ -Hemolysin, (357) 260
 Hemoprotein, (377) 512
 Hep G2 cell, (376) 99
 Heparin, (376) 216; (377) 240
 Heparin cofactor II, (365) 189
 Hepatic 1 α -hydroxylation, (375) 277
 Hepatic stellate cell, (376) 141
 Hepatic zonation, (377) 439
 Hepatitis-C virus, (365) 115; (376) 221
 Hepatocyte, (363) 132; (372) 108; (372) 177
 Hepatocyte growth factor, (362) 220; (372) 78
 Hepatocyte growth factor activator, (372) 78
 Hepatocyte: Epidermal growth factor, (368) 193
 Hepatocytic cell, (365) 223
 Hepatoma, (369) 260
 Heptafluoroacetic acid, (368) 452
 2-*n*-Heptyl 4-hydroxyquinoline-*N*-oxide, (359) 23
 Herbicide, (374) 130
 Herbicide mutant, (374) 130
 Herbimycin A, (368) 491; (371) 333
 Hereditary hemolytic anemia, (369) 34
 Herpes simplex virus, (368) 289; (373) 41
 Heterologous expression, (368) 495; (371) 39; (371) 307; (374) 345; (375) 183; (377) 140; (377) 167; (377) 181; (377) 451
 Heterologous gene expression, (374) 100
 Heteronuclear, (368) 519
 Heteronuclear NMR, (362) 156
 Heterotrimeric GTP binding protein, (369) 84
 Heterotropic effect, (374) 39
Hevea brasiliensis, (363) 211
 Hevein, (363) 211
 Heymann's Nephritis, (373) 151
 H γ II component, (357) 260
 High density lipoprotein, (363) 29
 High molecular weight DNA fragmentation, (364) 264
 High pl α -amylase, (361) 250
 High pressure, (364) 98
 Higher order structure of DNA, (361) 277
 Higher plants, (368) 188
 High-molecular weight MAPs, (371) 29
 Hindbrain segmentation, (368) 353
 HiPIP, (357) 70; (375) 197
 Hippocampal neuron, (368) 363
 Hippocampus, (363) 293; (370) 32; (377) 358
 Histidine, (359) 189; (361) 111; (363) 307
 [¹⁵N]Histidine, (369) 252
 Histidine kinase, (357) 149; (364) 63
 Histidine phosphorylation, (372) 238
 Histidine residue, (376) 190
 Histone, (358) 13
 Histone amino-terminal domain, (364) 17
 Histone ubiquitination, (377) 193
 HIT T15 cells, (371) 253
 HIV, (360) 85
 HIV envelope, (365) 95
 HIV nucleocapsid protein, (362) 59
 HIV protease, (367) 112
 HIV-1, (358) 48; (361) 85; (362) 243; (365) 141; (367) 251; (368) 267; (373) 255; (374) 117
 HIV-1 gag RNA, (357) 317
 HIV-1 hammerhead ribozyme, (357) 317
 HIV-1 protease, (357) 275
 HIV-1 reverse transcriptase, (359) 233; (361) 287; (370) 59
 HIV-1 RT mutant, (359) 233; (370) 59
 HIV-1-Tat/TAR inhibition, (367) 33
 HIV-2 RT, (359) 233; (370) 59
 HL-60, (365) 137

- HL-60 cell, (361) 206; (368) 477; (375) 299
 HL60 granulocyte, (364) 250
 HMG 2a (chick liver), (367) 49
 HMG box, (377) 37
 HMG1 proteins, (368) 466
 HMG-CoA reductase kinase, (361) 191; (377) 189
 HNF-3/fork head DNA binding domain, (369) 277
 H-NS, (360) 125
 H₂O₂, (374) 233
 13-IIODE, (369) 301
 Homeobox gene, (364) 289
 Homeodomain, (364) 289; (365) 71
 Homeoprotein, (368) 311
 Homodimer, (366) 72
 Homology, (365) 71; (371) 1
 Homotropic effect, (374) 39
 Hormonal effects, (358) 297
 Hormone binding, (358) 137
 Hormone receptor, (376) 151
 Horseradish peroxidase inhibition, (374) 192
 Host restriction, (371) 9
 Host-specific Nod gene, (368) 536
 HPLC, (361) 167
 HPLC separation, (368) 452
 H⁺-pump, (377) 263
 HSP27, (364) 229
 hsp40 (DnaJ), (358) 161
 hsp60, (377) 481
 Hsp70, (359) 129; (377) 481
 hsp70 (DnaK), (358) 161
 HSV-1 protease, (357) 168
 5-HT receptor, (370) 215
 HT29, (359) 169
 HT-29 cell, (374) 415
 5-HT₄ receptor, (370) 215
 HTLV-I, (375) 31
 Human, (357) 207; (357) 217; (358) 119; (359) 211; (360) 177; (361) 211; (361) 269; (367) 137; (372) 6; (372) 88; (373) 39; (377) 295; (377) 429
 Human 26 S protease, (363) 97
 Human Alu element, (360) 115
 Human β_2 -adrenergic receptor, (377) 140
 Human brain, (368) 500
 Human β -trace protein, (359) 164
 Human Burkitt's lymphoma Namalwa cells, (368) 92
 Human cathepsin E, (366) 72
 Human cathepsin O, (357) 129
 Human cell, (365) 101
 Human chromosome 9, (360) 277
 Human colon, (372) 269
 Human embryonic kidney cell expression, (367) 127
 Human endothelial cell, (360) 291; (373) 108
 Human epidermis, (358) 316
 Human erythrocyte, (368) 481
 Human fibroblast, (358) 126; (377) 26
 Human granulocyte, (377) 87
 Human heart, (361) 13
 Human immunodeficiency virus, (367) 267
 Human insulinoma cDNA, (373) 23
 Human intestinal tissue, (371) 345
 Human lactoferrin, (365) 57
 Human leukocyte cathepsin G, (362) 225
 Human leukocyte elastase, (362) 225
 Human lung, (375) 121
 Human lymphomononuclear cell, (357) 121
 Human lysozyme, (374) 262; (377) 505
 Human melanoma, (362) 161
 Human Mom19, (375) 307
 Human monocyte, (364) 234
 Human myometrium, (369) 295
 Human papillomavirus, (371) 214
 Human PK-120, (371) 227
 Human placenta, (371) 337; (373) 5; (375) 227
 Human plasma, (373) 207; (375) 159
 Human plasminogen, (363) 170
 Human platelet, (364) 109; (368) 377
 Human respiratory tract cell, (375) 179
 Human respiratory tract epithelial cell, (374) 233
 Human serum amyloid P component (SAP), (371) 13
 Human smooth cell, (372) 1
 Human T-cell leukemia virus type I, (358) 34
 Human tissue-type plasminogen activator, (363) 170
 Human trachea, (369) 202
 Human transferrin, (359) 164
 Human vascular, (367) 23
 Human-human hybridoma, (368) 92
Humicola insolens, (376) 49
 Hyaluronic acid, (357) 207
 Hybrid protein, (374) 195
 Hybridization, in situ, (367) 127; (371) 287; (374) 135
 Hydrocarbon, (370) 15
 Hydrogen bond, (368) 315
 Hydrogen peroxide, (357) 161; (368) 73; (368) 339; (371) 94; (372) 74
 Hydrogenase, (368) 117; (368) 203
 α/β Hydrolase fold, (371) 231
 3- Hydroperoxides metabolism, (371) 159
 Hydrophobic cluster, (359) 113; (373) 221
 Hydrophobic cluster analysis, (357) 103; (364) 319; (374) 211
 Hydrophobic interaction, (361) 255; (375) 162
 Hydrophobic ligand, (369) 22
 Hydrophobicity, (375) 63
 3-Hydroxyanthranilic acid, (376) 202
 Hydroxyarginine, (359) 251
 Hydroxycinnamic acid, (368) 188
 8-Hydroxydeoxyguanosine, (371) 86
 6-Hydroxydopamine, (360) 67
 Hydroxyethylthiamine pyrophosphate, (375) 220
 1-hydroxy-indanoyl-(iso)leucine, (377) 523
 Hydroxyl radical, (364) 255
 4-Hydroxy-2-nonenal, (359) 189
 5-Hydroxytryptamine, (377) 73
 25-Hydroxyvitamin D₃ 1 α -hydroxylase, (375) 277
 Hyperfine shift, (367) 77
 Hypertension, (361) 22
 Hyperthyroidism, (375) 206
 Hypertriglyceridemia, (367) 257
 Hypoosmolality, (373) 35
 Hypothalamus, (370) 227
 Hypothalamus-pituitary axis, (374) 113
 Hypoxia, (358) 311; (368) 367; (372) 233
 Hypusine, (364) 207; (366) 92
 I domain, (369) 197
 ICAM-1, (357) 140
 ICE inhibitor, (375) 283
 Ice-binding, (357) 183
 ICE_{rel} III, (375) 169
 ICE-like protease, (368) 69; (374) 303
 Id, (368) 81
 Id2, (374) 279
 IE118, (363) 25
 IEC-18 cell, (373) 199
 IFN- β , TNF- α , ICAM-1, (363) 141
 IFN γ -induced regulator, (376) 155
 IGCR, (363) 239
 IGF-1 receptor, (373) 51
 IGF-2, (374) 57
 IgG conformer, (361) 173
 IKVAV, (365) 227
 IL-10, (377) 515
 IL-11, (377) 515
 IL-13 binding, (366) 122
 IL-13 signal transduction, (366) 122
 IL-1 β , (367) 283
 IL-2, (372) 113
 IL-4, (372) 194
 IL-4-induced phosphotyrosine substrate, (366) 122
 IL-6, (364) 5
 IL-8 receptor, (367) 117
 Ileum (human), (369) 326
 Image analysis, (369) 13
 Image processing, (369) 43; (371) 77
 Imino excited 2D NOESY in water, (357) 317
 Immediate-early gene, (372) 273
 Immortalization, (374) 384; (375) 263
 Immune cell, (369) 272
 Immunoaffinity chromatography, (377) 128

- Immunoblastic lymphoma, (373) 285
 Immunocytochemistry, (357) 121; (377) 181
 Immunofluorescence, (360) 235
 Immunoglobulin, (361) 173
 Immunoglobulin production stimulating factor, (368) 92
 Immunoglobulin superfamily, (365) 51; (367) 89
 Immunogold electron microscopy, (368) 125; (377) 451
 Immunogold labeling, (366) 109
 Immunohistochemistry, (359) 81; (363) 235
 Immunoliposome, (357) 140
 Immunolocalisation, (371) 293
 Immunology, (373) 88
 Immunomodulation, (369) 177
 Immunoprecipitation, (358) 161
 Import, (368) 505
 Import receptor, (373) 45; (375) 307
 In situ hybridization, (365) 183
 In vitro transcription translation, (357) 168
 Inactivation, (360) 144; (377) 113
 Inactivation and reactivation, (373) 111
 Incretin, (358) 219
 Indispensable gene, (362) 257
 Indole derivatives, (374) 387
 Indomethacin, (360) 75; (360) 85
 Induced fit, (370) 179
 Inducible nitric oxide synthase, (363) 69; (377) 461
 Inducible promoter, (358) 62; (377) 434
 Induction of volatiles, (377) 523
 Inflammation, (360) 70; (363) 285; (367) 117; (372) 229; (374) 241
 Inflammatory joint disease, (361) 167
 Inflammatory mediator, (357) 33
 Influenza A, (357) 269
 Influenza virus, (366) 57; (372) 148
 Infrared fluorescence, (359) 65
 Infrared spectroscopy, (367) 297; (373) 141
 In-gel proteolysis, (376) 91
 Inhibition, (357) 247; (363) 311; (370) 101
 Inhibition kinetics, (361) 179; (361) 185
 Inhibitor, (357) 221; (359) 69; (368) 253
 Inhibitory loop, (377) 150
 Inhibitory response, (359) 41
 Initiation, (365) 47
 Initiator, (373) 159
 Innate immunity, (374) 1; (376) 225
 Inner filter effect, (363) 189
 Inorganic phosphate, (357) 16
 Inorganic pyrophosphatase, (359) 20; (377) 44
 iNOS, (377) 21
 Inosine, (357) 255
 Inositol, (358) 240
 Inositol 1,4,5-trisphosphate, (359) 151; (362) 316; (368) 248; (372) 291
 Inositol 1,4,5-trisphosphate receptor, (368) 248
 Inositol monophosphatase, (361) 1
 Inositol tetrakisphosphate, (358) 240
 Inositol trisphosphate, (360) 303; (367) 301
 Inositol(1,3,4,5)tetrakis-phosphate, (362) 316
 Inositolphosphate, (370) 236
 Inotropy, (376) 24
 Insect, (368) 177; (376) 185
 Insect cardioactive peptide, (371) 311
 Insect cell, (362) 50; (376) 181
 Insect cell (Sf9), (371) 293
 Insect neurobiology, (371) 311
 Insect neurohormone, (376) 251
 Insecticide resistance, (368) 461
 Insertional mutagenesis, (368) 429
 Insulin, (357) 109; (361) 51; (365) 133; (368) 160; (370) 255; (371) 167; (374) 187; (376) 211; (377) 353
 Insulin action, (370) 131
 Insulin receptor, (369) 57; (370) 131; (373) 51; (377) 353
 Insulin receptor substrate, (370) 131
 Insulin receptor substrate 1/2, (377) 353
 Insulin resistance, (368) 36; (377) 109
 Insulin secretion, (358) 23; (367) 283; (369) 315; (371) 253; (377) 237
 Insulin-like growth factor, (371) 69
 Insulin-like growth factor I, (373) 207
 Insulin-mimic activity, (368) 31
 Insulinoma, (362) 210
 Integrin, (363) 78; (363) 118; (367) 93; (369) 197
 Integrin α IIb β 3, (358) 179
 Integrin variant, (369) 340
 Interaction, (368) 315
 Interaction site, (375) 15
 Interaction with polypeptides, (369) 217
 Inter- α -trypsin inhibitor, (357) 207; (371) 227; (374) 195
 Intercalating viologen, (374) 426
 Intercalation, (374) 387
 Inter cellular communication, (358) 301
 Interconversion, (367) 177
 Interface, (367) 315
 Interferon α , (365) 87; (369) 161
 Interferon β , (358) 225
 Interferon regulatory factor, (359) 184
 γ -Interferon, (363) 85; (366) 37
 Interleukin 6, (364) 298
 Interleukin receptor, (371) 65
 Interleukin-1, (359) 262; (364) 218; (372) 181; (374) 375
 Interleukin-1 receptor, (367) 89; (373) 39
 Interleukin-1 receptor antagonist, (373) 39
 Interleukin-1 α , (371) 149; (372) 83
 Interleukin-1 β , (363) 161; (366) 159; (367) 205
 Interleukin-1 β converting enzyme, (364) 139; (375) 169
 Interleukin-3 gene, (376) 146
 Interleukin-6, (360) 43; (360) 137; (366) 159; (369) 187; (372) 177
 Interleukin-6-cytokine family, (372) 177
 Interleukin-8, (359) 229; (364) 211; (367) 117
 Intermediate compartment, (369) 267
 Intermediate filament, (360) 223
 Intermediate filament protein, (358) 185
 Intermediate species, (372) 126
 Internal promoter, (363) 165
 Internal protein sequence analysis, (376) 91
 Internal ribosome entry site, IRES, (365) 115
 Internucleosomal DNA fragmentation, (364) 264
 Interspersed repeated DNA, (368) 541
 Intestinal chloride secretion, (374) 34
 Intestinal epithelium, (373) 199
 Intestinal flora, (372) 185
 Intestinal mucosa, (359) 169
 Intracellular Ca²⁺ store, (368) 165
 Intracellular calcium, (364) 83; (370) 118
 Intracellular cholesterol transport, (363) 29
 Intracellular compartment, (369) 72
 Intracellular pH, (361) 145; (374) 17
 Intracellular protein targeting, (369) 72
 Intracellular signaling, (364) 120
 Intracellular transport, (369) 93; (376) 113
 Intracisternal A-particle, (376) 146
 Intramolecular electron transfer, (370) 259; (374) 265
 Intrinsic fluorescence, (368) 559
 Intron, (363) 165
 Intron retention, (377) 485
 Invasion, (364) 28; (369) 290; (372) 25
 Invertebrate, (357) 187; (362) 131; (375) 148
 Invertebrate neurobiology, (371) 311
 Invertebrate photoreceptor, (364) 189
 Invertebrate vision, (372) 243
 Inward rectification, (363) 157
 Inward rectifier, (367) 61; (374) 135
 Inward rectifier K⁺ channel, (375) 193
 Inward-rectifying current, (367) 319
 5'-(2-((Iodoacetyl)amino)ethyl)naphthalene-1-sulphonic acid fluorescence, (368) 297
 Iohexol (tri iodobenzoic), (357) 247
 Ion channel, (359) 101; (361) 65; (369) 290; (371) 35; (372) 119; (377) 377
 Ion metal affinity column, (360) 52
 Ion pump, (359) 101
 Ion selectivity, (370) 113
 Ionic channel, (360) 217
 Ion-induced hydrolysis, (374) 62
 Ionizing radiation, (364) 298
 Ionomycin, (359) 151
 Ionotropic glutamate receptor, (371) 253
 IRF, (358) 225
 Iron, (359) 126; (375) 223

- Iron chelation, (362) 165
 Iron protein, (373) 310
 Iron release, (362) 165
 Iron uptake, (361) 225
 Iron-responsive element, (359) 126
 Iron-sulfur center, (362) 235; (365) 30
 Iron-sulfur cluster, (361) 75; (363) 199; (367) 107; (368) 220; (370) 83
 Iron-sulfur protein, (359) 239
 Irradiation, (367) 53
 Ischemic injury, (374) 399
 ISGF3, (358) 225
 Islet, (367) 283
 Islet of Langerhans, (371) 253; (377) 353
 Islet regeneration, (377) 429
 Isoamide bond, (359) 73
 Isocyclic ring E, (371) 21
 Isodialuric acid, (364) 255
 Isoenzyme, (366) 170
 Isoform, (365) 51
 Isoform regulation, (367) 291
 Isomerization of retinal, (364) 168
cis-trans Isomerization, (374) 21
 Isopeptidase, (376) 233
 Isoproterenol, (374) 187
 Isoquinolinesulfonamide (H-89), (365) 137
 Isothermal microcalorimetry, (366) 156
 Isothermal titration calorimetry (ITC), (360) 247
 isotopic labelling, (370) 88
 Isozyme, (358) 149; (363) 293; (372) 189
 Isozyme hybrid, (363) 299

 J coupling constant, (362) 156
 Jak kinase, (374) 317
 JAK2, (371) 333
 Jasmonic acid, (377) 523
Jatropha curcas, (358) 215
 Jurkat T-cell line, (359) 151; (370) 118

 K⁺ channel, (367) 319; (372) 20; (373) 170
 K⁺ transport, (361) 153; (363) 46; (363) 157; (364) 161
 K⁺/H⁺ antiport, (361) 153
 K⁺/Na⁺ exchange, (376) 167
 Kainate, (363) 184
Kalanchoe, (377) 399
 Kallikrein, (365) 159
 K-channel, (367) 61
 KCNJ6, (367) 193
 33 kDa extrinsic, (363) 65
 20-kDa myosin light chain, (363) 57
 21–23 kDa protein, (369) 22
 Keratinocyte, (368) 556; (371) 188; (374) 113
 6-Ketocholestanol, (365) 7
 Kex2 inhibition, (364) 91
 KH, (358) 193
 Ki antigen, (366) 37
 Kidney, (368) 389; (373) 229
 Kidney cell *Vero*, (359) 85; (366) 49
 Kidney fatty acid-binding protein, (357) 165
 Kidney (rat), (377) 321
 Kinase, (357) 1; (357) 279; (358) 243
 Kinase activity, (374) 407; (374) 419
 Kinase peptide substrate, (367) 149
 Kinesin, (368) 531; (369) 101
 Kinetic, (374) 95
 Kinetic difference, (357) 156
 Kinetic isotope effect, (372) 148
 Kinetic mechanism, (373) 259
 Kinetic rate constant, (364) 335
 Kinetics, (361) 273; (363) 33; (369) 249; (370) 101; (377) 240
 Kinetics of N, (357) 156
 Kininogen, (357) 309
 Kir6.2, (377) 338
 Ki-ras, (370) 153
 Kiwi protein, (367) 306
Klebsiella pneumoniae, (369) 243
Kluyveromyces lactis, (360) 39; (371) 191
 KMSKS sequence, (363) 33
 KRAB domain, (369) 153

 Kupffer cell, (372) 108; (376) 65
 Kv1.5, (372) 20
 Kynurenine amino transferase, (360) 277
 Kynurenic acid, (367) 141
 Kynurenine aminotransferase, (367) 141

 L chain, (375) 273
 L6 myotube, (368) 19
 L7/L12 protein, (367) 280
 Labeling, (371) 315
Lac repressor, (375) 27
 Lacrimal, (360) 303
 β -Lactamase, (357) 115
 β -Lactam, (358) 97; (373) 303
 Lactase-phlorizin hydrolase, (368) 563
Lactobacillus brevis IFO 3345, (367) 177
 Lactoferrin, (360) 70
 Lactoperoxidase, (377) 512
 Lactosaminoglycan, (363) 280
 Lactotransferrin, (365) 57
 Lamin, (360) 223; (365) 108
 Lamin phosphorylation, (377) 26
 Laminin, (365) 183; (365) 227; (368) 139
 Laminin 5, (368) 556
 Laminin α 2 chain, (376) 37
 Laminin γ 2 chain, (365) 129
 Laminin-2, (376) 37
 LA-N-2, (372) 88
 Large bowel, (366) 143
 Large unilamellar vesicle, (359) 155
 Laser, (375) 113
 Lasp-1, (373) 245
 Late viral transcription, (362) 301
 Lateral mobility, (376) 77
 LC1 variability, (369) 255
 lck, (368) 491
 LC-PTP, (372) 113
 LDL peroxidation, (363) 277
 LDL receptor, (371) 341
 LDLr domain, (371) 199
 Learning and memory, (370) 250
 Lectin, (361) 157; (370) 245
 Lectin reactivity, (360) 211
 Lectin reactivity of abrin-a, ricin, ML-I and wheat germ, (371) 32
 Lectin-carbohydrate interaction, (361) 157
 Leech, (357) 187
Legionella pneumophila, (372) 169
Leishmania, (361) 123
Leishmania donovani, (375) 83
 Lens, (372) 283
 Lepidopterous larvae, (376) 181
 Leptin, (373) 13
 Leucine zipper motif, (364) 283
 Leucine-rich motif, (374) 125
 Leucine-rich repeat, (357) 173
 Leukemia cell, (363) 311
 Leukocidin, (357) 260
 Leukotoxicity, (376) 135
 Leukotoxin A C-terminal signal, (366) 1
 Leukotriene A₄ hydrolase, (358) 316
 Leukotriene C₄ synthase, (377) 87
 Leupin, (373) 61
 LHCII phosphorylation, (371) 176
 LHII, (368) 243
 Li⁺ ion, (363) 264
 Licorice, (368) 135
 Ligand binding, (357) 93; (360) 111; (363) 118; (364) 23; (375) 1
 Ligand binding domain, (368) 230
 Ligand binding site, (363) 184
 Ligand interaction, (376) 190
 Light intensity dependence, (357) 156
 Light scattering, (364) 9; (368) 516; (371) 123
 Light dark adaptation, (364) 168
 Light-harvesting complex, (363) 175; (367) 158; (368) 243
 Lignin degradation, (371) 132; (376) 202
 LIM, (373) 245
 Limited proteolysis, (360) 62; (362) 266; (369) 255; (370) 179; (371) 276
 β -1,2-Linked mannose, (373) 275

- Linoleic acid, (371) 159; (377) 306
 Linoleic acid desaturase, (368) 135
 α -Linolenic acid, Lipoyxygenase, (371) 159
 Lipase, (360) 202; (362) 29; (377) 475
 Lipid A, (370) 46
 Lipid binding affinity, (368) 516
 Lipid-binding polypeptide, (362) 328
 Lipid biosynthetic gene, (368) 429
 Lipid body, (367) 12
 Lipid fluidity, (357) 13
 Lipid interaction, (376) 172
 Lipid-membrane interaction, (375) 254
 Lipid mixing, (368) 15
 Lipid oxidation, (357) 7
 Lipid peroxidation, (357) 83; (359) 189; (360) 271; (361) 291; (368) 225; (368) 513; (370) 37; (377) 309
 Lipid peroxide, (360) 271
 Lipid-protein interaction, (371) 303; (373) 239; (374) 338
 Lipid transport, (367) 201; (372) 29
 Lipid-associated polypeptide, (362) 261
 Lipoate analog, (371) 167
 Lipoate enantiomer, (371) 167
 Lipocalin, (357) 255; (366) 53
 Lipogenic enzyme, (364) 193
 Lipolytic, (377) 475
 Lipophilic cation, (359) 69
 Lipopolysaccharide, (359) 251; (366) 127; (367) 117; (368) 193; (368) 336; (376) 6
 Lipoprotein lipase, (367) 257
 Lipoprotein(a), (377) 493
 Liposome, (363) 53; (365) 27; (375) 113
 Lipoyxygenase, (367) 12
 Lipoyxygenase-1, (371) 223
 12-Lipoyxygenase, (363) 105
 Lipoyxygenase-2, (371) 223
 5-Lipoyxygenase, (377) 306
N-Lissamine rhodamine, (368) 393
 Lithium, (361) 1
 Liver, (357) 33; (359) 81; (359) 126; (370) 255; (371) 137; (372) 181; (376) 65; (377) 439
 Liver regeneration, (362) 85; (372) 273
 LMP2, (376) 155
 LMP7, (376) 155
 Localization, (369) 149
 Location, (359) 107
 Loggerhead sea turtle (*Caretta caretta*) myoglobin, (357) 227
 Lon protease, (359) 1
 Loop, (375) 239
 Lovastatin, (361) 46
 Low-density lipoprotein, (357) 7; (360) 271; (361) 291; (365) 164; (374) 12; (377) 240
 Low frequency magnetic field (50 Hz), (359) 151; (370) 118
 Low-molecular-mass copper, (361) 167
 Low molecular weight GTP-binding protein, (368) 271
 Low temperature, (371) 61
 LPS, (364) 229
 Lqh α IT (*Leiurus quinquestriatus hebraeus*) anti-insect toxin, (376) 181
 L-shaped tail fiber, (366) 46
 LTP, (377) 358
 L-type Ca^{2+} channel, (373) 30
 Luciferase assay, (368) 311
 Luffin, (373) 115
 LukF component, (357) 260
 LukF-I, (376) 135
 LukM component, (357) 260
 LukS component, (357) 260
 LukS-I, (376) 135
 Luminescent protein, (367) 163
 Lutein, (365) 23; (367) 158
 Lycopene, (372) 199
 Lymphocyte, (360) 85; (365) 66
 Lymphocyte activation, (368) 110
 Lymphotactin, (360) 155
 Lyn, (358) 34; (367) 149
 Lysine, (375) 95
 Lysoamidase, (368) 113
 Lysophosphatidic acid, (366) 11; (372) 25
 Lysophospholipid, (372) 259
 Lysosomal recognition signal, (365) 203
 Lysosome, (368) 125; (369) 217
 Lysozyme, (366) 115; (375) 63
 Lysyl residues, (360) 207
 Lytic transglycosylase, (366) 115
 M2, (357) 269
 α 2-Macroglobulin receptor, (358) 73
 α 2-Macroglobulin receptor, (373) 296
 α 2-Macroglobulin, (367) 137; (368) 87; (372) 93; (373) 296
 Macromolecular crowding, (361) 135
 Macrophage, (359) 251; (360) 29; (363) 85; (366) 75; (371) 47; (374) 12; (377) 47
 Macrophage activation, (368) 425; (374) 249
 Macrophage foam cell, (363) 29
 Macrophage migration inhibitory factor, (373) 203
 Macrophage scavenger receptor, (368) 551
 Macrophage-uptake, (357) 7
 Madin-Darby canine kidney cell, (373) 19; (377) 465
 Magnesium block, (363) 157
 Magnetic circular dichroism, (367) 1; (377) 345; (377) 512
 Magnetic circular dichroism (MCD) spectroscopy, (370) 97
 Magnetic field, (376) 164; (377) 419
 Magnetic susceptibility, (377) 419
 Mahalanobis distance, (363) 127
 Maize, (369) 331
 Maize auxin-binding protein (ABP1), (371) 293
 Major allergen, (363) 6
 Major facilitator superfamily (MFS), (377) 232
 Malate synthase, (374) 225
 MALDI-MS, (357) 65; (367) 67
 Malignancy, (377) 51
 Maltose 1-epimerase, (367) 177
 Mammalia, (368) 541
Manduca sexta, (361) 153; (371) 311
 Manganese, (363) 251; (371) 132; (374) 62; (375) 223
 Mannose 1-phosphate, (377) 318
 Mannose-6-phosphate, 1- and 2-D NMR spectroscopy, (365) 203
 Mannose-6-phosphate/insulin-like growth factor II receptor, (360) 34; (360) 34
 Mannosyltransferase, (373) 275; (377) 128
 MAP kinase, (357) 290; (359) 133; (364) 223; (364) 229; (364) 211; (365) 42; (368) 55; (368) 77; (368) 183; (370) 141; (373) 123; (375) 289; (377) 393; (377) 497
 MAP-signaling pathway, (376) 199
 MAP1B, (371) 29
 Marker, (375) 125
 MAS17, (357) 202
 Mass analysis, (377) 145
 Mass spectrometry, (365) 23; (366) 81; (367) 237; (371) 21; (371) 341; (376) 91
 Mast cell, (368) 151
 Mastoparan, (374) 216
 Matrix metalloproteinase, (361) 61; (369) 249
 Matrix metalloproteinase 9, (360) 75
 Matrix protein, (377) 434
 Maturation, (368) 81
 M-caveolin, (376) 108
 MCD, (370) 53
 MCF-7 breast carcinoma cell, (362) 139
 Mch2, (375) 169
 MCLA-dependent organ luminescence, (372) 140
 MDCK cell, (369) 207; (373) 123
 MDR, (373) 285
 MDR folding, (359) 1
 ME1, (374) 279
 ME2, (374) 279
 Mechanism of activation, (370) 113
Medicago sativa L., (360) 57
 MEK, (357) 290
 Melanin-concentrating hormone (MCH), (359) 199
 Melanocyte, (374) 113
 Melanocyte-stimulating hormone (MSH), (359) 199
 Melatonin, (375) 148
 Melatonin receptor, (372) 99
 Melittin, (372) 131
 Membrane, (369) 34; (376) 108; (376) 211
 Membrane aggregation, (377) 444

- Membrane anchor, (374) 345
 Membrane binding, (367) 12
 Membrane-bound polysome, (361) 220
 Membrane biogenesis, (370) 69
 Membrane contact site, (372) 29
 Membrane damage, (359) 155
 Membrane fusion, (362) 243; (368) 143
 Membrane insertion, (369) 76
 Membrane lipid, (360) 85; (365) 66
 Membrane permeability, (367) 5
 Membrane permeability (rat liver), (362) 239
 Membrane phosphorylation, (373) 71
 Membrane potential, (359) 27; (359) 255; (367) 167; (367) 180
 Membrane protein, (361) 255; (365) 18; (368) 148; (369) 140; (370) 69; (377) 140; (377) 451
 Membrane protein biosynthesis, (362) 126
 Membrane protein crystallization, (368) 132; (373) 10
 Membrane protein insertion, (371) 303
 Membrane protein intrinsic fluorescence, (371) 303
 Membrane remodelling, (357) 98
 Membrane skeleton, (363) 231
 Membrane traffic, (368) 122
 Menasemiquinone, (359) 23
 Mercuric chloride, (361) 295
 Mercury, (360) 251
 Mercury (II), (358) 27
 Mesangial cell, (364) 218; (370) 141
 Mesangial cell (rat), (374) 375
 Mesendoderm, (369) 221
 Messenger RNA, (373) 35
 Metabolic control analysis, (368) 1
 Metabolic unit, (368) 1
 Metabotropic glutamate receptor, (367) 301
 Metal, (373) 76
 Metal analysis, (358) 189
 Metal binding, (368) 285
 Metal incorporation, (368) 432
 Metal ion cluster, (358) 278
 Metallo-protease, (371) 195
 Metalloproteinase, (364) 28
 Metallothionein, (373) 76
 Metal-substitution, (372) 126
 Metastasis, (362) 161; (369) 290
 Methane monooxygenase, (362) 5
Methanobacterium thermoautotrophicum, (368) 203
 Methanogenic Archaea, (368) 203
 Methanogens, (371) 119
 Methanol, (371) 267
 $N^{5,10}$ -Methylenetetrahydrofolate synthetase, (364) 215
 Methicillin-resistant *Staphylococcus aureus*, (362) 80
 Methionine, (366) 104
 5-Methylcytosine, (370) 75
 9-Methyl-7-bromoeudistomin D, (373) 250
 2-Methyl,4-carboxy-3,4,5,6-tetrahydropyrimidine, THP(B), (367) 33
 2-Methyl,4-carboxy,5-hydroxy-3,4,5,6-tetrahydropyrimidine, THP(A), (367) 33
 Methylamine, (371) 267
 Methylation, (376) 125
 Methylation of regulatory region, (360) 115
N-Methyl-D-aspartate receptor, (377) 390
 Methylene-tetrahydrofolate dehydrogenase, (368) 177
 3-*O*-Methylglucose, (365) 98
 Methyllycaconitine, (365) 79
 Methylotrophic growth, (371) 267
 2-Methyl-2-nitrosopropane, (360) 47
 Methyl-*p*-nitrobenzenesulfonate, (363) 307
 Methylscopolamine, (377) 275
 4-Methylumbelliferyl-*N*-acetyl- α -D-neuraminic acid, (372) 148
 Mg^{2+} binding, (377) 44
 Mg^{2+} loading, (371) 52
 Mg -ATP, (361) 55
 Mg^{2+} -ATPase activity, (363) 246
 $[Mg^{2+}]$, decrease, (371) 52
 MGF-Stat 5, (360) 29
 MHC class II, (363) 85; (373) 127
 Micellar enzymology, (364) 98
 Micellar-lamellar transition, (358) 17
 Micelle, (373) 239
 Microbial product, (372) 54
 Microbody, (377) 434
 Micro-characterization, (376) 91
 Microcin, (357) 235
 Microcompartmentation, (361) 135
 Microcystin, (362) 101; (371) 236; (377) 123
 α_1 -Microglobulin, (362) 50
 Microinjection, (358) 287
 Microsequence, (357) 187
 Microsomal 1α -hydroxylation, (375) 277
 Microsome, (358) 230; (367) 198; (371) 137; (375) 188
 Microtubule, (360) 5; (368) 10; (371) 29
 Microtubule-associated protein, (360) 5; (376) 238
 Microtubule associated protein tau, (360) 132
 Microtubule motor, (368) 531
 Microvesicle, (367) 233
 Microvillous membrane, (375) 227
 Midkine, (362) 147
 MIG1, (371) 191
 Milk, (372) 185
 Millimetre microwave, (359) 85; (366) 49; (367) 53
 MIN6 cells, (371) 253
 Mineralization, (373) 1
 Minimal genome, (362) 257
 Minor groove binding, (375) 304
 MIP-2 mRNA, (363) 285
 Mislocation of proteins, (359) 6
 Mismatch base pair, (377) 301
 Mite, (370) 11
 Mitochondria, (357) 297; (358) 273; (360) 80; (365) 75; (368) 177; (369) 136
 Mitochondria, plant, (373) 307
 Mitochondria (rat heart), (368) 101
 Mitochondrial, (358) 119
 Mitochondrial ATPase complex, (368) 505
 Mitochondrial channel, (362) 239
 Mitochondrial DNA, (362) 337
 Mitochondrial matrix, (374) 309
 Mitochondrial membrane, (377) 530
 Mitochondrial outer membrane, (357) 202; (370) 69
 Mitochondrial phosphoprotein, (377) 470
 Mitochondrial precursor protein, (359) 93
 Mitochondrial presequence, (359) 93; (368) 15; (373) 239
 Mitochondrial RNA, (375) 268
 Mitochondrion, (359) 179; (360) 235; (362) 24; (363) 41; (364) 143; (370) 222; (372) 29; (372) 238; (373) 45; (375) 206; (375) 307
 Mitogen, (360) 62
 Mitogen-activated protein kinase, (368) 160; (376) 141
 Mitogenic signaling, (373) 146
 Mitogenic stimulation, (358) 287
 Mitosis, (375) 75
MMoXB, (364) 289
 Mn^{2+} influx, (359) 137
 Mn-cluster, (377) 325
 Mobility shift assay, (358) 109
 Mode of action, (360) 217
 Model membrane, (357) 75
 Modified base, (364) 255
 Modified nucleoside, (362) 24
 Modified nucleoside 5'-triphosphate, (357) 23
 Module, (358) 193
 Molecular chaperone, (358) 129; (358) 161; (359) 129; (369) 72; (369) 321; (376) 67; (377) 481; (377) 505
 Molecular cloning, (357) 86; (360) 155; (363) 226; (367) 311
 Molecular dynamics, (374) 21
 Molecular dynamics, (357) 37
 Molecular evolution, (367) 306; (373) 212
 Molecular expression, (374) 295
 Molecular genetics, (369) 38
 Molecular interaction, (364) 109
 Molecular mechanics, (357) 37; (377) 77
 Molecular mimicry, (369) 243
 Molecular modeling, (361) 243; (374) 216; (374) 379
 Molecular motion of protein, (377) 502
 Molecular motor, (368) 531
 Molecular properties, (360) 197
 Molecular recognition, (362) 306; (370) 1; (375) 15
 Molecular replacement, (367) 214; (373) 310; (377) 150

- Molecular structure, (357) 37
 Molecular superposition, (377) 77
 Mollusc, (365) 71
 Molluscan hemocyte, (365) 120
 Moloney Murine Leukemia Virus, (361) 41
 Molten globule, (362) 43; (370) 212
 Molten globule state, (359) 6
 Molybdenum cofactor, (370) 197
 Molybdoenzyme, (370) 197
 MOM22, (357) 202
 Mono-allelic expression, (374) 57
 Monoamine oxidase-B inhibitor, (358) 145
 Monoclonal antibody, (357) 140; (358) 262; (359) 189; (362) 80; (363) 17; (363) 57; (363) 118; (363) 195; (367) 85; (367) 153; (368) 401; (375) 280; (376) 243
 Monocyte, (363) 78
 Monocyte chemoattractant protein (MCP-1), (374) 375
 Monocyte-derived macrophage, (357) 129
 Monocyte-macrophage (human), (358) 175
 Monomer, (367) 315
 Monomer-dimer equilibrium, (374) 199
 Mononucleotide binding fold, (363) 33
 Monooxygenase, (364) 41
 Morphine, (369) 192
 Morphine-6 β -glucuronide, (369) 192
 3-Morpholinodnonimine, (371) 86
 Morris hepatoma 7777 cell line, (376) 159
 Mortalin, (361) 269
 Motif, (377) 475
 Motility assay, in vitro, (365) 167
 Motility (in vitro), (375) 151
 Motor neuron disease, (368) 449
 Motor protein, (375) 151
 Mouse, (361) 269; (368) 405; (370) 269
 Mouse 5-HT_{1A} receptor, (377) 451
 Mouse development, (359) 15
 Mouse ribonucleotide reductase, (373) 310
 Mouse sperm receptor saccharide, (367) 67
 Mouse testis, (358) 129
 Mouse, transgenic, (364) 171
 Mov-34, (363) 97
 mRNA, (360) 191; (364) 171; (366) 92; (368) 336; (371) 307; (372) 88; (373) 76; (373) 108; (374) 135
 mRNA expression, (366) 170
 mRNA level, (372) 157
 mRNA localization, (357) 86
 mRNA regulation, (366) 170
 mRNA stability, (357) 265
 mRNA turnover, (377) 185
 MRP-14, (371) 271
 MRP-8, (371) 271
 MSP23, (368) 239
 mtDNA, (376) 15
 Mu₂ receptor, (369) 192; (369) 192; (369) 192
 Mucin, (368) 139
 Mucus proteinase inhibitor, (361) 265
 Multicatalytic proteinase complex, (366) 37
 Multicopy suppressor, (369) 212
 Multidrug resistance, (376) 95; (377) 285
 Multidrug resistance, P-glycoprotein, (368) 373
 Multidrug resistance protein, (368) 385
 Multienzyme, (357) 212
 Multi-enzyme complex, (360) 121
 Multigene family, (368) 500
 Multimer structure, (375) 259
 Multiple cysteine mutants, (370) 19
 Multiple myeloma, (377) 515
 Multiple organ failure, (373) 19
 Multiple sequence alignment, (357) 149; (368) 105
 Multi-step DNA cleavage, (358) 255
 Multiubiquitin chain, (359) 73
 Murine D₄ receptor, (361) 215
 Murine erythroleukemia cell differentiation, (368) 466
 Murine macrophage-like cell, (368) 425
 Muscarinic receptor, (377) 275
 Muscarinic toxin, (371) 171
 Muscle, (361) 51; (366) 131; (369) 43; (376) 108
 Muscle contraction, (364) 59; (375) 67
 Muscle damage, (373) 291
 Muscle denervation, (375) 67
 Muscle membrane, (366) 109
 Muscle relaxation, (369) 136
 Muscular dysgenesis, (368) 405
 Muscular dystrophy, (358) 262; (364) 245
 Mutagenesis, (360) 144; (360) 169; (362) 151; (362) 257; (363) 33; (365) 155; (366) 61; (367) 163; (368) 397; (369) 165; (370) 93; (372) 249; (374) 287; (377) 368
 Mutant, (360) 89; (366) 104; (370) 197
 Mutant lysozymes, (371) 17
 Mutant protein, (370) 209
 Mutant rat trypsin, (370) 179
 Mutants of *Scenedesmus*, (367) 158
 Mutation, (358) 1; (363) 179; (366) 72; (367) 112; (367) 257
 Mutational analysis, (374) 327
 Mutational hotspot, (362) 205
 Mycobacteria, (375) 254
Mycobacterium smegmatis, (368) 23
 Myelin, (368) 393
 Myelin biogenesis, (377) 465
 Myeloid cell, (374) 1; (376) 225
 Myeloid differentiation, (360) 29
 Myeloid leukemia, (376) 146
 Myocardial infarction, (373) 97
 MyoD, (368) 81
 Myofibril (rabbit psoas), (364) 59
 Myogenesis, (362) 89; (369) 340
 Myogenin, (361) 140; (362) 89
 Myoglobin, (360) 271
 Myometrium, (372) 6
 Myosin, (363) 246; (369) 101; (373) 217; (377) 123
 Myosin isoforms, (375) 67
 Myosin light chain, (374) 6
 Myosin light chain phosphatase, (367) 246
 Myosin light chain (rabbit fast skeletal), (369) 255
 Myosin subfragment 1, (371) 261
 12-Myristate 13-acetate (PMA), (359) 137
Mytilus, (363) 37
Myxococcus xanthus, (358) 31
 Na pump, (363) 75; (376) 211
 Na⁺ site, (363) 179
 Na⁺ transport, (363) 46
 Na⁺/Ca²⁺ exchanger, (371) 249
 Na⁺/glucose cotransporter trafficking, (377) 181
 Na⁺/H⁺ antiporter, (363) 264; (371) 119; (374) 17
 Na⁺/H⁺ exchange, (361) 145
 Na⁺/K⁺-ATPase, (377) 21
 Na⁺/K⁺-pump, (363) 179
 Na⁺/K⁺-transporting ATPase, (359) 107
 Na⁺/Mg²⁺ antiport, (371) 52
 Na⁺-ATPase, (359) 255
 Na-Ca exchanger, (364) 198
 NAD⁺ glycohydrolase, (359) 35; (371) 204; (377) 530
 NADH dehydrogenase, (375) 5
 NADH: ubiquinone oxidoreductase, (367) 107; (369) 173
 NADH-coenzyme Q reductase, (366) 119
 NADH-cytochrome b₅ reductase, (361) 97
 NADH-quinone reductase, (363) 75
 NADH-ubiquinone oxidoreductase, (370) 83; (375) 5; (377) 470
 NAD(P)H dehydrogenase, (373) 307
 NADPH oxidase, (377) 345
 NAD(P)H oxidation, (365) 75
 NAD(P)H: plastoquinone oxidoreductase, (367) 107
 NADPH-dependent diaphorase, (361) 206
 NADPH-dependent oxidoreductase, (370) 32
 Na-K ATPase, (372) 119
 Na⁺, K⁺-ATPase, (360) 67; (362) 85; (368) 169
 Na,K-ATPase pump, (368) 110
 Native and asialo-Tamm-Horsfall glycoproteins, (371) 32
 Native DNA, (368) 27
 Natriuretic peptide receptor, (360) 169
Natrobacterium pharaonis, (364) 168
 Natural product screening, (357) 269
 Natural variant, (374) 363
 NBD, (368) 393
 ncd, (368) 531

- NDP kinase, (363) 311
 Necrosis, (364) 264
 Nedd2, (368) 69
 Nedd2/Ich-1, (375) 169
nef, (365) 141
 Nef protein, (357) 275
 Negative dominant, (372) 49
 Negative regulatory domain, (358) 89
 Negative regulatory element, (365) 101
 Negative stain electron microscopy, (359) 45
 Nematode, (357) 265
 Neoantigenic, (376) 243
 Neomycin phosphotransferase, (369) 239
 Neoplasm, (374) 270
 Neopterin, (364) 234; (377) 461
 Nephrotoxicity, (360) 277
 Nerve fiber, (361) 145
 Nerve growth factor, (362) 201; (364) 301; (374) 125
 Neural cell adhesion molecule, (360) 1; (373) 119
 Neural induction, (371) 287
 Neurite outgrowth, (357) 217; (365) 227
 Neuroblastoma, (369) 260; (372) 88
 Neuroblastoma cell, (357) 217; (360) 5
 Neuroendocrine, (360) 294; (368) 471
 Neurofibrillary degeneration, (360) 132
 Neurofibrillary tangle, (368) 10
 Neuromuscular junction, (358) 262; (374) 393
 Neuron, (363) 293
 Neuron guidance, (371) 321
 Neuronal differentiation, (362) 201; (370) 231; (375) 243
 Neuronal expression, (368) 276
 Neuropathological disease, (361) 215
 Neuropeptide, (370) 227; (371) 311
 Neuropeptide Y, (362) 192
 Neuroprotection, (374) 399
 Neurosporene, (372) 199
 Neurotoxicity, (360) 277
 Neurotoxin, (370) 163; (375) 162; (376) 41; (377) 201
 Neurotransmission, (361) 196
 Neurotransmitter, (377) 201
 Neurotransmitter release, (361) 101
 Neurotransmitter transporter, (375) 99
 Neurotrophin receptor, (374) 216
 Neutron scattering, (374) 141
 Neutrophil, (361) 206; (368) 173; (371) 300; (372) 233; (373) 189; (377) 309
 Neutrophil granulocyte, (375) 79
 Neutrophil respiratory burst, (376) 164
 NF- κ B, (361) 89; (363) 105; (367) 205; (369) 113; (371) 181; (371) 333; (372) 181; (377) 21
 NGF, (360) 106
 NGF receptor, (374) 216
 N-glycan branching, (363) 280
 NhaA, (363) 264
 Ni-chelate chromatography, (368) 148
Nicotiana glauca, (370) 197
Nicotiana glauca, (364) 33; (374) 203
 [³H]Nicotine, (365) 79
 Nicotinic acetylcholine receptor, (360) 261
 Nicotinic receptor, (362) 15
 Nicotinic receptor subtype, (365) 79
 Nidogen binding, (365) 129
 NIH 3T3 fibroblast, (357) 279; (365) 146
nir, (360) 151
 Nitrate, (366) 137
 Nitrate reductase, (366) 137; (370) 197; (377) 113
 Nitrate transport, (370) 264
 Nitric oxide, (358) 9; (360) 10; (360) 47; (360) 291; (361) 229; (361) 291; (363) 69; (363) 235; (364) 259; (364) 314; (366) 127; (368) 193; (368) 425; (369) 131; (369) 136; (370) 37; (370) 159; (370) 215; (371) 86; (371) 99; (372) 229; (374) 228; (374) 249; (376) 207; (377) 461
 Nitric oxide electrode, (376) 262
 Nitric oxide reductase, (371) 73
 Nitric oxide synthase, (357) 178; (365) 120; (368) 336; (371) 333; (372) 229; (374) 399
 Nitric oxide synthase (inducible), (357) 121
 Nitrilase, (367) 275
 Nitrile hydratase, (358) 9
 Nitrite reductase, (371) 73
 Nitrogen fixation, (361) 225
 Nitrogen oxide, (374) 228
 Nitrogen source transport, (359) 215
 Nitrogen-fixation, (357) 79
 8-Nitroguanine, (376) 207
p-Nitrophenyl-*N*-acetyl- α -D-neuraminic acid, (372) 148
 S-Nitrosoglutathione, (360) 47
 Nitrotyrosine, (363) 235; (364) 279; (374) 105
 Nitroxide, (367) 137
 NK2 neurokinin receptor, (375) 183
 N-linked glycosylation, (368) 230
 N-linked oligosaccharide, (358) 323; (360) 1
 Nm23, (363) 311
 NMR, (357) 301; (358) 17; (358) 193; (360) 125; (361) 157; (362) 261; (362) 333; (363) 61; (366) 6; (367) 67; (368) 519; (370) 46; (372) 135; (372) 203; (372) 288; (374) 117; (374) 257; (375) 108
 NMR, ¹H, (367) 137; (368) 267
 NMR spectroscopy, (366) 1; (369) 305; (370) 175; (374) 387
 NMR structure, (370) 163
 2D NMR, (368) 526; (373) 239
 NO release, (357) 121
 NO synthase, (359) 251; (360) 291; (374) 295
 Nod factor, (368) 536
 NOE, (368) 519
 Non-denaturing IEF, (358) 129
 Non-enzymatic glycosylation, (364) 182; (371) 81
 Nongenomic steroid effect, (364) 83
 Non-heme iron, (358) 9
 Non-lamellar phase, (368) 143
 Non-photosynthetic tissue, (359) 50
 Non-selective cation channel, (358) 297
 Nonsteroidal anti-inflammatory agent, (366) 143
 Nontoxic-nonhemagglutinin, (376) 41
 Non-uniform translation, (376) 195
nor, (360) 151
 Northern blot, (363) 285
 Northern blot analysis, (360) 235
 Northern blot hybridization, (377) 221
 Novel sequence in pullulanase, (369) 243
 NPR2, (359) 215
 6-*n*-Propyl-2-thiouracil, (374) 192
 NPY, (362) 192
nqr operon, (363) 75
 NS3 protein, (376) 221
 NSCL, (374) 279
 NSF, (369) 80
 N-terminal positions, (370) 23
 N-terminal sequence, (369) 255; (370) 15
 N-Terminal signal sequence, (360) 310
 N-terminus, (357) 297; (367) 237
NTM1, *YBR0106* and *ATH1*, (360) 286
 Nuclear envelope, (365) 108
 Nuclear extract, (358) 137
 Nuclear factor B, (364) 218
 Nuclear factor κ B, (364) 298
 Nuclear import, (368) 415
 Nuclear localization sequence, (369) 107
 Nuclear localization signal, (366) 43
 Nuclear location signal, (368) 415
 Nuclear magnetic resonance, (359) 113; (359) 184; (363) 90; (366) 99; (377) 363
 Nuclear magnetic resonance spectroscopy, (365) 172
 Nuclear morphology, (377) 9
 Nuclear Overhauser enhancement spectroscopy, (377) 301
 Nuclear pore complex, (369) 107
 Nuclear pore-targeting complex, (368) 415
 Nuclear-mitochondrial interaction, (368) 505
 Nucleic acid, (375) 174
 Nucleobindin, (373) 155
 Nucleocapsid protein, (361) 85
 Nucleocytoplasmic transport, (357) 173
 Nucleophilic substitution, (358) 171
 Nucleoporin, (369) 107
 Nucleoside diphosphate kinase, (364) 63
 Nucleosome, (358) 13; (361) 149; (369) 118
 Nucleosome positioning, (364) 17
 Nucleotide, (358) 251

- Nucleotide binding, (359) 123; (359) 159; (363) 189; (366) 87
 Nucleotide binding site, (366) 29; (377) 408
 Nucleotide exchange factor, (368) 49
 Nucleotide peptide, (357) 235
 Nucleotide sequence, (358) 182; (363) 75; (365) 108; (365) 152; (365) 198; (369) 233
 Nucleotide-binding motif, (369) 233
 Nucleotidyl transferases, (377) 258
 Nucleus, (360) 315; (377) 67
 Nucleus transport, (369) 107
 Null mutation, (357) 265
 Number of epitopes, (359) 9
 Nutrition, (362) 257
- O₂ activation, (362) 5
¹⁸O incorporation, (364) 215
 O₆₄₀ intermediate, (359) 65
¹⁸O labeling, (364) 41
ob Gene, (371) 324; (373) 13; (373) 131
ob mRNA, (368) 488
ob (obese) gene, (368) 488
ob/ob mouse, (368) 488
 Obesity, (371) 324
 Octadecanuropeptide, (362) 106
 Odorant, (359) 41
 1 α , 25-(OH)₂D₃, (370) 78
 Okadaic acid, (357) 197; (370) 184
¹⁸O-labelling, (371) 21
 Oleoyl-amide, (377) 82
 Olfactory bulb, (362) 75
 Olfactory neuron, (359) 41
 Oligodendrocyte (rat), (368) 393
 Oligodeoxynucleotide, (368) 97
 Oligomannose, (363) 53
 Oligomerization, (359) 35; (363) 145; (371) 57
 Oligomycin, (363) 179
 Oligonucleotide, (368) 315; (369) 287
 Oligosaccharide, (358) 205; (363) 280
 Oligosaccharide hydrolysis, (358) 57
 Oligosaccharyl transferase, (362) 229
 Oncogene, (357) 27
 Oncogenesis, (375) 31
 Oncostatin M, (359) 262
 Oocyte, (358) 301; (368) 389; (371) 307
 Oocyte expression, (367) 127
 Open time correlation, (370) 113
Ophiostoma, (374) 208
 Opiate, (376) 11
 Opioid dipeptide, (377) 363
 Opioid κ -receptor, (361) 106
 Opioid receptor, (357) 93; (359) 142; (361) 70; (364) 23; (369) 192; (373) 177; (375) 1; (375) 201
 Opioid receptor (δ , μ , κ) (369) 272
 Opioid receptor transcript, (369) 272
 δ -Opioid receptor, (376) 11
 κ -Opioid receptor, (360) 97
 Organelle, (358) 149
 Organic hydroperoxide, (373) 299
 Orientation, (377) 419
 Ornithine decarboxylase, (377) 321
 Orphan receptor, (375) 121
 Osmolyte, (377) 47
 Osmoregulation in fission yeast, (376) 199
 Osmotic stress, (364) 229; (373) 123
 Osteoblast, (373) 1
 Osteoclast, (361) 79
 Ouabain, (377) 21
 Ouabain-like compound, (360) 67
 Outer membrane phospholipase, (373) 10
 Outward rectification, (373) 170
 Ova, (357) 98
 Ovarian cancer, (357) 255
 Ovarian cycle, (374) 184
 Overall control coefficient, (368) 1
 Overexpression, (361) 111; (363) 33; (369) 158; (369) 229
 Ovine, (377) 519
 Oxidant, (372) 233
 Oxidant stress, (357) 161
 Oxidation, (357) 135; (362) 197; (375) 45
 β -Oxidation, (367) 198
 Oxidative DNA damage, (358) 1; (364) 255; (371) 86
 Oxidative phosphorylation, (366) 29
 Oxidative stress, (371) 94; (371) 209; (373) 299
 Oxidative stress protein, (368) 239
 Oxidised low density lipoprotein, (374) 12
 Oxidized LDL, (357) 135; (358) 175; (362) 197; (366) 75; (377) 309
 Oxidized low density lipoprotein, (368) 239; (374) 12
 Oxidized-LDL, (372) 1
 2-Oxoacid dehydrogenase complex, (371) 167
 2-Oxo acid dehydrogenase, (373) 259
 1-Oxo-indanoyl-(iso)leucine, (377) 523
 2-Oxoglutarate, (371) 167
 Oxyanion hole, (362) 151
 8-Oxoguanine, (376) 207
 Oxygen, (367) 180; (370) 203
 Oxygen activation, (367) 56
 Oxygen binding, (364) 9
 Oxygen evolution, (367) 173
 Oxygen evolving complex, (360) 251; (375) 223
 Oxygen intermediate, (359) 27
 Oxygen radical, (361) 22; (365) 66; (369) 131
 Oxygen sensor, (369) 136
 Oxygen transfer catalysis, (362) 5
 Oxygen uptake, (376) 65
 Oxygenation, (372) 126
 Oxysterol, (357) 135
 Oxytocin, (373) 35
 Oxytocin receptor, (370) 227
 Ozone, (363) 285
- P_i binding protein (*E. coli*), (364) 59
 P_i residue, (368) 471
 p16, (373) 164
 P2, (372) 135
 p21^{WAF1/CIP1}, (357) 290; (362) 295
 p220 cleavage, (377) 1
 P2-purinoceptor, (375) 129
 p34^{cdc2} kinase, (375) 249
 P450 61, (377) 217
 P450IA1, (365) 101
 p53, (358) 161; (368) 348; (374) 384; (377) 295
 p72^{src}, (367) 149
 PACAP, (362) 75
 PAF-acetylhydrolase, (357) 7
 PAI-1, (376) 243
 Paired helical filament, (358) 4; (358) 267; (368) 10; (372) 65
 Palmitic acid, (371) 283
 Palmitoyl CoA, (364) 143
 Palmitoylation, (371) 241
 Pancreas, (368) 45
 Pancreatic β -cell, (367) 61; (367) 193; (377) 338
 Pancreatic cancer cell line, (373) 85
 Pancreatic islet cell, (364) 259
 Pancreatic phospholipase A₂ (PLA₂), (373) 85
 Pancreatic secretory trypsin inhibitor, (372) 69
 Pantetheine, (357) 212
 PAP, (373) 115
 Papain, (361) 185
Paracoccus, (371) 267
Paracoccus denitrificans, (360) 151
Paralichthys olivaceus, (360) 197
 Parallel DNA triplex, (367) 81
 Paramagnetic mapping, (367) 137
 Parasitism, (376) 185
 Parathyroid, (364) 67
 Pargyline, (358) 145
 Parkinsonism, (377) 201
 Partial hepatectomy, (362) 220
 Parvalbumin, (375) 137
Pasteurella multocida, (360) 62
 Patch clamp, (365) 1; (373) 30; (373) 103; (373) 127; (375) 215
 Pathological chaperone, (371) 110
 Paxillin, (362) 201; (368) 343
 Pb²⁺, (377) 390
 PC12, (362) 201
 PC12 cell, (357) 290; (360) 106; (368) 276

- PC2, (362) 151; (371) 154
 PC2 convertase, (364) 91
 PCR, (357) 255; (359) 211; (370) 11; (371) 287; (373) 203; (375) 125; (376) 41
 PDGF-R, (372) 49
 PECAM1, (374) 323
 Pentobarbital, (374) 412
 Pentose-5-phosphate 3-epimerase, (377) 349
 Pepsinogen, (357) 58
 Peptic hydrolysate, (364) 115
 Peptide, (358) 97; (362) 65; (368) 257; (371) 283; (371) 341; (372) 185
 Peptide α -amidation, (366) 165
 Peptide antibiotic, (357) 235
 Peptide antigenicity, (361) 176
 Peptide blocking, (374) 125
 Peptide bond cleavage, (371) 171
 Peptide conformation, (361) 176; (362) 243; (368) 526
 Peptide-enzyme complex, (372) 131
 Peptide fragment, (371) 171
 Peptide insertion, (370) 189
 Peptide library, (361) 85
 Peptide-lipid interaction, (375) 239
 Peptide nucleic acid, (365) 27
 Peptide-phospholipid interaction, (358) 133
 Peptide-protein interaction, (375) 108
 Peptide purification, (373) 207
 Peptide synthetase, (357) 212; (373) 303
 Peptide transport, (370) 264
 Peptidoglycan metabolism, (366) 115
 Peptidomimetic, (359) 113
 Peptidyl-prolyl *cis/trans* isomerase, (365) 198; (372) 169
 Peptidyl-prolyl-*cis/trans*-isomerase, (371) 47
 Peribacteroid membrane, (361) 225
 Peripheral blood mononuclear cell, (364) 293
 Permeability, (374) 312
 Permeability transition, (371) 258
 Permeability transition pore, (365) 75; (368) 101
 Peroxidase, (367) 28; (367) 241; (371) 132; (375) 273
 Peroxisomal matrix protein, (368) 293
 Peroxisome, (357) 115; (358) 230; (359) 179; (367) 198
 Peroxisome (human), (377) 213
 Peroxisome proliferator response element, (360) 183
 Peroxisome proliferator-activated receptor, (360) 183
 Peroxynitrite, (363) 235; (364) 314; (369) 131; (371) 86; (372) 229; (376) 207
 Pertussis toxin, (364) 211; (366) 11
 PG-5, (368) 197
 Δ^1 -PGJ₂, (368) 348
 P-Glycoprotein, (360) 165; (368) 385; (373) 285; (377) 285
 PgsA, (364) 157
 pH, (361) 123; (375) 193
 pH dependence, (368) 551
 PH domain, (362) 286
 pH sensor, (363) 264
 Phage, (361) 85
 Phage adsorption, (366) 46
 Phage display, (377) 227
 Phage T5, (374) 169
 Phagocytosis, (373) 189
 Phalloidin, (369) 144
 1, 10-Phenanthroline, (362) 39
 Phase partition, (364) 276
 Phase separation, (361) 135
Phaseolus lunatus, (377) 523
 Phenethyl alcohol, 4-hydroxy, (365) 10
 Phenobarbital, (366) 159
 Phenolic compound, (365) 10
 Phenylalanine, (358) 293; (364) 272
 Phenylalanine dehydrogenase, (370) 93
 Phenylalanine hydroxylation, (357) 62
 Phenylalanyl-tRNA synthetase, (358) 293; (364) 272
 Phenylarsine oxide, (368) 377
 Phenylephrine, (368) 165
 Phenylglyoxal, (360) 93
 Phenylpropanoid metabolism, (368) 188
 Pheochromocytoma, (368) 411
 Pheromone receptor, (367) 122
 PHF, (365) 42; (366) 81
 Pho box, (357) 16
 Phorbodhodopsin, (364) 168
 Phospholipase A₂, (375) 79
 Phorbol ester, (358) 73; (363) 13; (364) 203; (371) 185; (374) 415; (376) 99; (377) 87
 Phospholipase A₂, (359) 133
 Phosphatase, (373) 123; (376) 58
 Phosphatidyl inositol 4-kinase, (361) 282
 Phosphatidylbutanol, (364) 250
 phosphatidylcholine, (364) 301; (365) 146
 Phosphatidylethanolamine, (365) 146
 Phosphatidylethanolamine synthesis, (360) 165
 Phosphatidylethanolamine-binding protein, (369) 22
 Phosphatidylinositol 3-kinase, (357) 279; (361) 51; (368) 160; (373) 51; (376) 74; (376) 141
 Phosphatidylinositol glycan-class A gene (PIG-A), (361) 295
 Phosphatidylinositol synthase, (377) 271
 Phosphatidylinositol-3 kinase, (358) 243; (361) 79; (366) 122
 Phosphatidylinositol-4,5-bisphosphate, (376) 172
 Phosphatidylinositol-specific phospholipase C, (360) 34; (360) 34
 Phosphatidylinositol-specific phospholipase C (PIPLC), (361) 295
 Phosphoenolpyruvate carboxylase, (360) 207; (362) 70
 Phosphoenolpyruvate carboxylase, (375) 95; (377) 399
 Phosphofructokinase, (374) 100
 Phosphofructokinase (yeast), (363) 17
 Phosphoglycerate mutase, (359) 192
 Phosphohistidine, (364) 51
 Phosphohistidine protein, (364) 63
 Phosphoinositide, (361) 282
 Phosphoinositide hydrolysis, (364) 45
 Phospholamban, (373) 71
 Phospholipase, (372) 131
 Phospholipase A₂, (364) 218; (365) 125; (367) 228; (374) 17; (377) 358
 Phospholipase C, (358) 287; (361) 106; (361) 243; (365) 125; (365) 155; (372) 173; (372) 243; (377) 333
 Phospholipase C γ , (368) 377
 Phospholipase C- γ 1, (358) 105
 Phospholipase C- γ 2, (358) 105
 Phospholipase D, (361) 162; (363) 13; (364) 250; (365) 125; (365) 146; (373) 189
 Phospholipid, (357) 7; (360) 255; (363) 269; (368) 143; (371) 123; (374) 403
 Phospholipid biosynthesis, (370) 149
 Phospholipid hydroperoxide glutathione peroxidase, (366) 151
 Phospholipid molecular species, (364) 250
 Phospholipid monolayer, (357) 75
 Phospholipid-binding protein, (369) 22
 Phosphomannomutase, (377) 318
 Phosphoprotein phosphatase, (364) 51
 Phosphorothioate oligonucleotide, (366) 146
 Phosphoryl transfer, (363) 22; (368) 289
 Phosphorylase, (362) 101
 Phosphorylase kinase, (362) 271
 Phosphorylation, (357) 149; (357) 197; (357) 251; (358) 142; (360) 137; (362) 185; (363) 170; (363) 246; (364) 185; (365) 42; (367) 223; (367) 301; (368) 10; (371) 149; (373) 111; (373) 135; (374) 367; (375) 243; (376) 87; (377) 131
 Phosphorylation of tau, (360) 132
 Phosphorylation site, (377) 113
 Phosphoserine, (377) 113
 Phosphotransferase system, (374) 161
 Phosphotyrosine, (364) 223
 Phosphotyrosine protein phosphatase, (374) 249; (375) 235
 Phosphotyrosine tyrosine phosphatase, (372) 49
 Phosphorylated oligomannosidic glycan, (365) 203
 Photoactivation, (358) 9
 Photoactive yellow protein, (374) 157
 Photoaffinity cross-linking, (377) 408
 Photochromism, (375) 113
 Photo-CIDNP, (372) 135
 Photocycle, (373) 81; (377) 330
 Photocycle model, (357) 156
 Photoelectric signal, (377) 419
 Photoinduced electron transfer, (374) 426
 Photoinhibition, (362) 235; (364) 239; (371) 61
 Photolabeling, (364) 143; (375) 188
 Photolysis, (375) 113
 Photomorphogenesis, (370) 146

- Photoreception, (376) 87
 Photoreceptor, (377) 333
 Photoreceptor protein, (374) 157
 Photosynthesis, (362) 1; (362) 235; (363) 137; (365) 30; (368) 263; (370) 88; (370) 241; (375) 223
 Photosynthetic apparatus, (367) 158
 Photosynthetic bacterium, (374) 130
 Photosystem I, (362) 235
 Photosystem II, (357) 55; (360) 251; (363) 137; (363) 251; (364) 239; (367) 173; (370) 241; (371) 195; (375) 223; (377) 325
 Phototaxis, (364) 276
 Phylogenetic tree, (361) 17; (367) 275; (377) 98; (377) 399
 Phylogeny, (357) 187
Physarum polycephalum, (363) 145
 Phytanic acid, (359) 179; (377) 213
 Phytochrome, (370) 146
 Phytohormone, (362) 215; (365) 10
 PI 3-kinase, (367) 272
 PI(3)-kinase, (369) 52
Pichia pastoris, (377) 451
 Picornavirus, (374) 327
 Pig brain, (375) 117
 Pig heart, (373) 71
 Pig plasma protein, (371) 227
 Pineal gland, (375) 148
 Pinealocyte, (367) 233
 Pinosylvlin, (361) 299
Pinus strobus, (361) 299
Pisum sativum, (360) 15; (367) 19
 Pituitary, (377) 37
 Pituitary gland, (364) 79
 PKC, (363) 293; (366) 143; (374) 367
 PKC γ , (368) 276
 PKC inhibitor, (359) 259
 PKC isotype, (373) 146
 Plant, (370) 264
 Plant DNA virus, (377) 258
 Plant mitochondria, (362) 10; (365) 7; (368) 339; (371) 258; (373) 56; (374) 152
 Plant photoreceptor, (357) 149
 Plant signal transduction, (357) 149
 Plant viral 3'-UTR, (360) 281
 Plasma glycoprotein, (357) 207
 Plasma kallikrein, (357) 207
 Plasma membrane, (367) 201; (370) 264; (373) 170; (374) 43; (374) 203; (377) 181
 Plasma membrane fatty acid-binding protein (FABP_{pm}), (375) 227
 Plasma membrane protein, (364) 276
 Plasma protein binding, (373) 97
 Plasminogen activator, (377) 290
 Plasminogen activator inhibitor, (376) 243
 Plasminogen activator inhibitor type-1, (361) 118
 Plastid, (372) 199; (374) 351
 Platelet, (358) 240
 Platelet aggregation, (363) 231; (364) 87; (374) 48; (375) 15
 Platelet factor 4, (357) 301
 Platelet-derived growth factor, (358) 311
 Platelet-derived growth factor (PDGF-AB, PDGF-BB), (374) 375
 Platelet-derived growth factor (PDGF-B/c-sis), (357) 1
 Platelet-derived growth factor- β , (368) 377
 Platinum complex, (370) 193
 PLC β , (364) 45
 PLC β 1, (375) 183
 Pleckstrin homology, (377) 243
p/sX gene, (368) 429
 PMA, (358) 105; (374) 367
 PMN serine protease, (374) 29
 PNA, (363) 115
 Pneumolysin, (371) 77
 Point mutation, (367) 315; (368) 405
 Poliovirus, (367) 5; (371) 4; (377) 1
 Poliovirus protease 2A, (371) 4
 Poly (ADP)-ribose polymerase, (375) 283
 Poly(A) tail size, (373) 35
 Poly(ADP-ribose) polymerase, (364) 103
 Polyamine, (363) 157; (365) 61; (368) 27; (377) 321
 Poly(arabitol phosphate) teichoic acid, (371) 163
 Polychlorinated biphenyl, (374) 403
 Polyclonal antibodies for C3c and C3d fragments of human complement (C3), (372) 291
 Polyclonal antiserum, (374) 195
 Polyethylene glycol, (368) 559
 Polyglutamylation, (364) 147
 Polyglycylation, (364) 147
 Polyheme cytochromes *c*, (373) 280
 Polyketide synthase, (361) 299; (374) 246
 Polymerase chain reaction, (359) 203; (362) 80; (363) 165; (367) 145; (368) 500
 Polymorphism, (359) 211; (370) 11
 Polymorphonuclear leukocyte, (359) 229; (369) 301; (372) 161
 Polymorphonuclear neutrophil, (374) 29
 Poly-(*N*-acetylglucosamine)glycan, (367) 67
 Polypeptide conformation, (362) 261
 α -Polypeptide, (368) 243
 β -Polypeptide, (368) 243
 Poly(Phe) synthesis, (357) 19
 Polyphenol oxidase, (371) 195
 Polyphosphoinositide, (365) 155
 Polyphosphoinositide metabolism, (362) 106
 Polyproline, (369) 67
 Polyprotein, (363) 175
 Polypurine-polypyrimidine, (370) 153
 Polysaccharide structure, (368) 113
 Polysialic acid, (360) 1
 Polysialic acid synthase, (373) 119
 Polysialyltransferase, (373) 119
 Polysome, (373) 76
 Poly(U), (376) 221
 Polyunsaturated fatty acid, (376) 15
 poly[d(A-C)]-poly[d(G-T)], (358) 27
 POM, (374) 113
 POMC cleavage, (371) 154
 'Poor-heat-shock-recovery' phenotype, (360) 286
 Pora, (371) 258
 Porcine leukocyte, (362) 65
 Pore formation, (375) 134
 Pore-forming protein, (367) 5
 Pore-forming toxin, (371) 77
 'Porin 31HL'
 Porphobilinogen deaminase, (372) 264
 Porphyrin, (375) 273
 Portal vein, (368) 36
 Positional specificity, (367) 12
 Post-golgi secretory vesicles, (373) 269
 Postnatal development, (359) 81
 Post-transcriptional regulation, (367) 89; (367) 291; (370) 203
 Post-translational activation by the substrates, (357) 145
 Post-translational modification, (362) 50; (364) 207; (366) 92
 Potassium, (359) 101
 Potassium channel, (361) 13; (370) 32; (374) 135; (377) 383
 Potassium channel inhibitor, (368) 485
 Potassium current, (373) 127
 Potato virus Y, (372) 165
 Potential sensitive dye, (376) 167
 Potentiometric titration, (374) 265
 Poxvirus, (371) 9
 PPIase, (371) 47
 PPO, (371) 176
 PPR1, (358) 278
 PQQ (pyrroloquinoline quinone), (364) 325
 PR-39, (376) 130
 pRb, (373) 164
 Prealbumin, (360) 177
 Pre- α -trypsin inhibitor, (374) 195
 Precursor processing, (362) 276
 Precursor protein, (367) 19
 Preprogrammed DNA fragmentation, (358) 211
 Preimplantation embryo, (375) 125
 Pre-irradiated solutions, (366) 49
cis-Prenyltransferase, (358) 230
 P_i-release, (369) 144
 Prelevansucrase, (360) 307
 Preprocathepsin C, (369) 326
 Preprolactin mRNA, (359) 206
 Pressure, (370) 212
 Pre-steady state kinetics, (362) 189

- Pre-steady-state, (358) 293
 Presynaptic protein, (368) 455
 prICE/CPP32/Yama/ apopain, (375) 169
 Primary cell culture, (374) 179
 Primary cultured neuron, (376) 238
 Primary electron donor P, (357) 239
 Primary response gene, (368) 160
 Primary sequence, (365) 183
 Primary structure, (377) 145
 Pristanic acid, (359) 179
 Pro sequence, (362) 319
 Probucol, (358) 175
 Procarboxypeptidase A, (367) 211
 Procathepsin L, (370) 78
 Processing, (358) 39; (362) 143; (364) 1
 Processing activity, (367) 112
 Processing by Yap3, (364) 91
 Procine, (358) 240
 Prodigiosin 25-C, (359) 53
 Progenitor toxin, (376) 41
 Progesterone, (364) 83; (376) 151
 Proglucagon processing, (372) 269
 Proglycogen, (362) 271
 Programmed cell death, (361) 229; (363) 304; (368) 69; (376) 247
 Prohibitin, (358) 273
 Prohormone, (361) 8
 Prohormone processing enzyme, (368) 471
 Prokaryote, (357) 79
 Prolactin, (358) 158
 Prolactin receptor, (358) 84
 Prolactin secretion, (367) 127
 Prolamin, (372) 103
 Proliferating cell nuclear antigen, (363) 132
 Proliferation, (357) 1; (364) 5; (364) 120; (372) 44; (373) 85; (375) 69
 Proline, (359) 215; (372) 13
cis-Proline, (372) 203; (374) 21
 Proline-rich, (362) 65
 Promastigote, (361) 123
 Promoter, (362) 210; (362) 215; (365) 108; (368) 276; (373) 159; (374) 279
 Promoter control, (362) 301
 Promoter region, (377) 413
 Promoter sequence, (371) 181
 Proopiomelanocortin, (361) 8
 Prooxidants, (368) 513
n-Propanol, (361) 29
 Property, (359) 107
 Prophepin, (376) 130
 Propofol, (357) 83; (368) 101
 Proproteinase E, (367) 211
 Prostaglandin, (360) 85; (368) 225; (372) 108
 Prostaglandin E, (360) 75; (364) 339; (372) 83; (372) 151
*Δ*¹²-Prostaglandin J₂, (372) 279
 Prostanoid EP₂ receptor, (372) 151
 Prostanoid receptor, (364) 339
 Prostate cancer, (363) 226; (369) 290
 Protease, (358) 101; (361) 61; (364) 1; (364) 134; (377) 267
 Protease 2A, (377) 1
 Protease inhibitor, (357) 242; (362) 93; (364) 139; (371) 264
 Protease sensitivity, (374) 199
 Protease Ti, (377) 41
 Proteases inhibitor, (377) 9
 Proteasome, (359) 1; (359) 173; (366) 37; (367) 39; (376) 155
 Proteasome activator PA28, (366) 37
 26S Proteasome, (363) 151
 Protegrin, (368) 197; (376) 130
 α , β , $\alpha + \beta$, α/β Protein, (363) 127
 Protein, (363) 65; (369) 34; (371) 283; (374) 53
 Protein aggregation, (358) 185; (359) 93
 Protein assembly, (368) 293
 Protein biosynthesis, (365) 214; (368) 49
 Protein C, (365) 219; (367) 153
 Protein carbohydrate interaction, (370) 245; (372) 96
 Protein carbohydrate recognition, (366) 57
 Protein carbonyl, (364) 279
 Protein characterization, (363) 37
 Protein-chromophore interaction, (362) 34
 Protein conformation, (359) 31; (371) 171
 Protein crystal, (373) 39
 Protein crystallization, (364) 243; (367) 211
 Protein degradation, (371) 171; (377) 249
 Protein denaturation, (367) 297
 Protein disulfide isomerase, (357) 305; (369) 212; (372) 210; (377) 505
 Protein-DNA interaction, (363) 61
 Protein electrostatics, (360) 89
 Protein engineering, (359) 31; (361) 179; (364) 325; (367) 241; (377) 131
 Protein expression, (373) 296; (374) 356
 Protein fold recognition, (358) 283; (371) 199
 Protein folding, (357) 301; (357) 305; (358) 247; (359) 6; (359) 123; (359) 129; (359) 195; (360) 255; (361) 55; (364) 175; (366) 6; (366) 99; (368) 435; (369) 76; (372) 210; (372) 215; (372) 288; (374) 105; (374) 356; (375) 211; (375) 231; (376) 195; (377) 481; (377) 505
 Protein fragment, (362) 266
 Protein fragmentation, (364) 279
 Protein G, (366) 99
 Protein glycosylation, (362) 229; (370) 41; (377) 318
 Protein HC, (362) 50
 Protein histidine phosphatase, (364) 51
 Protein identification, (369) 122; (376) 91
 Protein import, (357) 202; (360) 310; (361) 35; (364) 305; (367) 19; (374) 152
 Protein kinase, (358) 4; (358) 199; (358) 267; (364) 120; (364) 185; (364) 223; (365) 137; (372) 59; (372) 279; (373) 217; (375) 289
 Protein kinase A, (367) 263; (369) 315; (375) 37; (377) 413
 Protein kinase C, (359) 60; (359) 137; (359) 259; (363) 13; (364) 87; (364) 203; (364) 301; (367) 223; (367) 301; (368) 373; (369) 263; (373) 135; (374) 17; (374) 415; (375) 69; (375) 99; (376) 77; (377) 87; (377) 159
 Protein kinase C inhibition, (362) 139
 Protein kinase C (mouse), (372) 189
 Protein kinase C subspecies expression changes, (372) 33
 Protein kinase CK1, (369) 57
 Protein kinase CK2, (363) 111
 Protein kinase inhibitor, (364) 229
 Protein kinase M, (367) 223
 Protein kinase N, (360) 106
 Protein-ligand interaction, (360) 111
 Protein-lipid interaction, (358) 251
 Protein methylation, (360) 57
 Protein modelling, (364) 45
 Protein modelling, (357) 50
 Protein module, (369) 67
 Protein NMR, (365) 172; (369) 197
 Protein O-glycosylation, (377) 128
 Protein oxidation, (362) 165; (374) 85
 Protein PAB, (374) 257
 Protein phosphatase, (362) 101; (368) 39; (371) 236; (373) 30; (374) 237; (375) 75; (375) 294; (375) 299; (376) 238; (377) 123; (377) 295
 Protein phosphatase-1, (364) 67
 Protein phosphatase-2A, (377) 421
 Protein phosphatase-2C, (377) 421
 Protein phosphorylation, (357) 161; (358) 23; (359) 192; (360) 5; (360) 106; (362) 70; (363) 111; (364) 309; (368) 211; (368) 411; (368) 563; (370) 175; (371) 236; (375) 289; (377) 439
 Protein processing, (363) 211
 Protein-protein interaction, (368) 441; (369) 67; (375) 15
 Protein purification, (377) 167
 Protein reactivation, (368) 293
 Protein refolding, (360) 52
 Protein secretion, (362) 29; (367) 201
 Protein-serine/threonine kinase, (376) 31
 Protein Ser/Thr kinase, (366) 11
 Protein serine/threonine phosphatase, (370) 184
 Protein solvation, (366) 6
 Protein sorting, (375) 307
 Protein stability, (364) 165; (370) 273
 Protein structure, (361) 8; (373) 141; (374) 141; (375) 162
 Protein structure prediction, (357) 103; (364) 319
 Protein structure, tertiary, (376) 31
 Protein superfamily, (376) 251
 Protein synthesis, (357) 287; (359) 262; (370) 123; (372) 249
 Protein synthesis inhibition, (360) 299
 Protein synthesis regulation, (363) 273
 Protein targeting, (370) 69; (372) 253; (373) 45
 Protein threading, (373) 13
 Protein topology, (369) 76

- Protein trafficking, (357) 98
 Protein translocation, (358) 251; (364) 157; (371) 145
 Protein transport, (368) 263; (369) 97
 Protein-tyrosine kinase, (363) 101; (363) 231; (374) 48
 Protein-tyrosine phosphatase, (358) 233; (364) 5; (372) 113; (372) 173
 Protein tyrosine phosphorylation, (370) 127
 Protein unfolding, (367) 297
 Protein/rRNA parallels, (367) 306
 14-3-3 Protein, (368) 321; (374) 77
 Proteinase, (357) 247
 Proteinase 3, (374) 29
 Proteinase inhibitor, (359) 78; (377) 172
 Proteolipid, (377) 465
 Proteoliposome, (365) 18; (368) 253; (374) 72
 Proteolysis, (359) 173; (361) 115; (363) 17; (363) 293; (365) 149; (368) 151
 Proteolytic activation, (362) 220
 Proteolytic cleavage, (357) 275
 Proteolytic degradation, (367) 219
 Proteolytic digestion, (360) 255
 Proteolytic inhibition, (362) 276
 Proteolytic processing, (360) 294; (371) 149
 Prothoracicotropic hormone, (376) 251
 Prothymosin α , (359) 15; (366) 43; (371) 337
 Proton pump, (368) 253; (370) 53
 Proton pumping, (359) 27
 Proton transfer, (358) 142
 Proton translocation mechanism, (357) 156
 Proton transport, (377) 330
 Protonmotive force, (358) 142
 Proton-translocating ATPase, (371) 127
 Protostomia, (360) 223
 Provirus, (375) 31
 Proximal histidine, (374) 39
 Pseudo symmetry, (368) 49
 Pseudoazurin, (368) 432
Pseudomonas aeruginosa, (365) 152; (367) 275; (371) 73; (377) 145
Pseudomonas solanacearum, (369) 239
 PSII reaction center, (363) 65
 Psoralen, (372) 222; (374) 287
 Pteridine, (364) 234
 Pterin, (360) 177
 Pterin cofactor, (357) 37
 PTH, (370) 78
 PTH secretion, (364) 67
 PTS2, (357) 115
 P-type, (362) 15
 P-type ATPase, (359) 101
 PufQ protein, (372) 264
 Pullulanase, (369) 243
 Pulmonary surfactant, (362) 261
 Purification, (358) 316; (362) 70; (362) 171; (362) 319; (367) 49; (369) 229; (370) 15; (371) 315; (377) 217; (377) 530
 Purine nucleoside phosphorylase, (367) 214
N(7)- β -D-Purine nucleoside, (367) 214
 Purine receptor, (375) 129
 Purine-pyrimidine-purine sequence, (367) 81
 Purple acid phosphatases, (367) 56
 Purple membrane, (359) 65; (377) 330
 Putative ATPase family, (363) 151
 Putrescine, (357) 192
Pycnoporus cinnabarinus, (376) 202
Pyrococcus furiosus, (368) 117
 Pyrroline-5-carboxylate synthetase, (372) 13
 Pyruvate, (371) 167
 Pyruvate carboxylase, (377) 197
 Pyruvate decarboxylase, (375) 220
 Pyruvate dehydrogenase, (364) 185
 Pyruvate dehydrogenase complex, (373) 111
 Q intermediate, (359) 65
 Q β phage RNA, (359) 89
 Quantal Ca^{2+} release, (368) 248
 Quantal mitosis, (358) 126
 Quaternary structure, (359) 20; (374) 82
 Queuosine, (361) 259
 Quiescence, (372) 33
 Quinacrine mustard, (359) 69
 Quinidine, (375) 193
 Quinol oxidation, (374) 265
 Quinone binding protein, (367) 1
 Quinternary complex, (358) 71
 R358 α 1-antitrypsin, (365) 219
 Rab protein, (366) 65; (376) 113
 Rab3, (377) 109
 Rab5 isoform, (366) 65
 Rabbit, (375) 67; (377) 73
 Rabbit chondrocyte, (360) 75
 Rabbit heart, (372) 20
 Rabbit skeletal muscle, (367) 132
 3' RACE, (377) 519
 5'-RACE, (360) 191
 Radical cation, (370) 241
 Radioligand binding, (361) 243
 Raf, (368) 183; (369) 52
 Raf kinase, (368) 55
 Raf-1, (368) 321; (375) 37; (377) 497
 Rainbow trout, (377) 37
 ralGDS, (375) 37
 RalGEF, (369) 52
 Raman, (368) 23
 Ran/TC4, (369) 107
 RANTES/ MIP-1 α receptor, (376) 19
 rap1 p21, (375) 37
 Rapamycin, (358) 158
 Rape, (374) 225
 Rapid, (374) 53
 Rapid kinetics, (359) 27
 Rare codons, (376) 195
 Ras, (357) 279; (368) 183; (368) 297; (369) 47; (369) 52; (377) 497
 RAS oncogene, (368) 373
 ras p21, (368) 321; (375) 37
 Ras protein, (376) 113
 rasGAP, (370) 127
 ras-p21, (358) 283
 ras-recision gene, (372) 74
 ras-related GTPase, (377) 221
 Rat, (359) 81; (359) 126; (361) 201; (363) 41; (364) 51; (375) 99
 Rat 3Y1 fibroblast, (366) 11
 Rat $\alpha_1\beta_1$ integrin, (373) 234
 Rat ascites hepatoma cell, (372) 25
 Rat brain, (367) 141; (377) 383
 Rat brain microvessel endothelium, (374) 179
 Rat brown and white adipose tissue, (373) 131
 Rat cardiac myocyte, (376) 24
 Rat cortical astrocyte, (367) 319
 Rat ECE-1 β , (371) 140
 Rat hepatocyte, (360) 10; (373) 299; (374) 228
 Rat hepatocyte, (357) 33
 Rat insulin II gene, (362) 210
 Rat liver, (361) 282; (373) 203
 Rat liver macrophage, (372) 108
 Rat liver mitochondrion, (366) 119
 Rat lung, (363) 285
 Rat peroxisomal enoyl-CoA hydratase/3-hydroxyacyl-CoA dehydrogenase, (360) 183
 Rat retina, (374) 399
 Rat vascular smooth muscle cell, (369) 311
 Rate limiting step, (364) 59
 Ratiometric fluorescence analysis, (370) 127
RCAl (*YTA12*), (373) 66
(R_p)-cAMPS, (375) 231
rcK_{ATPase}, (374) 135
 Reaction center, (357) 239; (362) 235; (363) 137; (365) 30; (374) 130
 Reaction mechanism, (361) 250
 Reactivation, (358) 171
 Reactive nitrogen species, (369) 131
 Reactive oxygen intermediate, (364) 234
 Reactive oxygen species, (358) 1; (359) 189; (364) 75; (374) 228
 Reaper, (371) 321
 RecA, (368) 64
 Receptor, (357) 1; (357) 109; (358) 240; (362) 111; (364) 211; (365) 87; (365) 125; (367) 39; (369) 161; (372) 88; (374) 203; (375) 239; (376) 31
 Receptor affinity, (377) 451

- Receptor binding, (359) 199
 Receptor crosstalk, (372) 173
 Receptor down-regulation, (367) 272
 Receptor for PLA₂, (373) 85
 Receptor, muscarinic, (377) 275
 Receptor subtype, (362) 19
 Receptor tyrosine kinase, (368) 353; (370) 250; (372) 173
 Receptor/hormone interaction, (360) 169
 Receptor-binding, (372) 93
 Receptorial peptide, (365) 13
 Recombinant, (361) 211
 Recombinant 12 kDa BCGF, (361) 233
 Recombinant α -amylase, (363) 299
 Recombinant bovine conglutinin, (376) 6
 Recombinant CD4, (359) 9
 Recombinant chemokine, (376) 19
 Recombinant DNA, (374) 195
 Recombinant expression, (375) 259
 Recombinant glycoprotein, (365) 57
 Recombinant hemoglobin, (374) 39
 Recombinant HMG 2a, (367) 49
 Recombinant human erythropoietin, (365) 203
 Recombinant mRNA, (359) 89
 Recombinant protein, (367) 145
 Recombinant receptor, (358) 137
 Recombination, (368) 64; (377) 92
 Recombination junction, (363) 239
 Reconstitution, (362) 126; (364) 189; (365) 18; (374) 72; (374) 157; (377) 167
 Recoverin, (376) 87
 Red cell, (369) 34
 Redox, (359) 267
 Redox potential, (357) 305; (368) 220
 Redox regulation, (368) 59
 Redox signalling, (372) 238
 Redox state, (364) 55
 Redox-active thiols, (370) 209
 Reductive carboxylation, (359) 50
 Refolding, (358) 101
 Refolding, in vitro, (373) 296
 Reg family, (377) 429
 Regenerating liver, (367) 228
 Regional immunity, (376) 74
 Regulated secretion, (361) 8; (364) 328; (368) 271
 Regulation, (357) 125; (369) 118; (374) 393; (377) 98; (377) 131
 Regulation of enzyme activity, (364) 98; (369) 62
 Regulation of expression, (360) 115; (360) 194
 Regulatory complex, (363) 97
 Regulatory sequence, (377) 413
 Rel, (363) 105
 Rel family, (369) 113
 Relative stability, (367) 81
 Relaxation, (368) 519
 Renal α -hydroxylation, (375) 277
 Renal carcinogen, (357) 165
 Renal failure, (371) 300
 Renaturation, (368) 64
 Renaturation (in situ), (373) 71
 Renin promoter, (372) 157
 Rep78, (367) 267
 Replication, (357) 283
 Replication factor C, (363) 132
 Replication initiation, (377) 258
 Repression, (357) 283; (366) 131
 Reptilian protein, (373) 212
 Resistance, (357) 1; (368) 326; (372) 44; (374) 174
 Resistance to U-90152S, (359) 233; (370) 59
 Resolution, (371) 279
 Resonance Raman, (377) 345
 Respiration, (364) 161; (371) 267
 Respiratory chain, (367) 107
 Respiratory complex, (377) 470
 Respiratory electron transport, (371) 89
 Respiratory Na⁺-pump, (369) 173
 Respiratory oxidase, (371) 89
 Response element, (362) 215
 Restriction enzyme, (357) 192
 Retention, (369) 97
 Retention signal sequence, (371) 293
 Retina, (357) 178; (362) 247
 Retinal protein, (364) 168
 Retinoblastoma, (371) 321
 Retinoblastoma gene product, (367) 103
 Retinoic acid, (368) 45; (368) 311; (369) 183; (370) 231
 9-*cis* Retinoic acid receptor alpha, (360) 183
 Retinoid, (369) 183
 Retinoid X receptor α , (358) 137
 Retrieval, (369) 97
 Retrograde transport, (369) 89
 Retrotransposon, (376) 146
 Retrotransposon 1731, (357) 283; (377) 67
 Retroviral vector, (365) 223
 Rev-dependency, (365) 141
 Reverse micelle, (360) 202
 Reverse transcriptase, (357) 23; (373) 255
 Reverse transcriptase-polymerase chain reaction, (367) 132; (369) 272
 Reversed phase HPLC, (371) 89
 RGL, (375) 37
 Rheumatoid arthritis, (361) 89; (372) 83
Rhizobium, (367) 180
Rhizobium tropici, (368) 536
 Rho, (363) 78; (367) 246
rho p21, (366) 11; (371) 105
 Rhodamine, (372) 229
 Rhodamine-phalloidin and mechanical forces, (369) 144
 Rhodanese, (359) 195
Rhodobacter capsulatus, (372) 264
Rhodobacter sphaeroides, (368) 148; (374) 371
Rhodobacter sulfidophilus, (368) 243
Rhodococcus erythropolis, (367) 275
Rhodospirillum rubrum, (365) 10
Rhodotorula gracilis, (363) 307
 Rhop21, (372) 25
 Riboflavin carrier protein, (361) 176
 Ribonuclease, (359) 31; (360) 187
 Ribonuclease A, (364) 175
 Ribonuclease Bp, (357) 16
 Ribonuclease H, (368) 315
 Ribonucleotide reductase, (358) 67; (368) 441; (374) 95
 Ribosomal control, (357) 287
 Ribosomal protein, (369) 229
 Ribosomal protein gene, (368) 429
 Ribosomal protein S6, (375) 289
 Ribosomal protein S7, (369) 158
 Ribosomal RNA, (357) 287; (370) 123
 Ribosomal S6 kinase, (358) 199
 Ribosome, (367) 280; (370) 222
 Ribosome-inactivating protein, (360) 299; (373) 115
 Ribozyme, (361) 273; (362) 156; (368) 304
 Rice, (358) 62
Ricinus communis, (368) 559
 RIE-1 epithelial cell, (368) 160
 Rieske, (359) 239; (361) 75
 RINm5F cells, (371) 253
 RKIN1, (377) 189
 RNA-binding, (376) 221
 RNA-binding domain, (362) 333
 RNA-binding protein, (359) 267; (367) 291
 RNA-dependent RNA polymerase, (371) 219
 RNA-duplex unwinding, (371) 219
 RNA editing, (373) 56; (374) 152
 RNA hairpin, (374) 292
 RNA N-glycosidase, (370) 123
 RNA processing, (357) 173
 RNA recognition motif, (366) 146; (372) 135
 RNA structure, (362) 156
RNAI mutant, (357) 173
 RNase activity, (363) 6
 RNase H, (361) 41
 RNase protection assay, (358) 219
r-NGFI-B family, (372) 273
Robinia pseudoacacia, (377) 54

- Rod outer segment, (357) 178
 Role in disease resistance, (377) 175
 Rolipram, (358) 305
 Rolling circle, (362) 116
 Rolling circle replication, (377) 258
 Root nodule, (361) 225
 Rose Bengal, (360) 47
 Rotational diffusion, (359) 45
 Rotational echo double resonance, (377) 208
 Rouse sarcoma virus, (358) 13
rps10, (374) 152
 rRNA, 28S, (371) 345
 rRNA *N*-glycosidase, (360) 299
 SS rRNA, (374) 292
 RT-PCR, (360) 191; (364) 293
 Ruffled border, (361) 79
 Ru-modified cytochrome, (359) 27
 Rusticyanin, (365) 35
 Ryanodine, (360) 303; (367) 23; (372) 6
 Ryanodine receptor, (359) 223; (369) 43; (373) 250
 Rye, (364) 36
- S100, (363) 90; (363) 90
 S100 protein, (371) 271
 S100A8, (371) 271
 S100A9, (371) 271
 S15261, (368) 36
 S6 kinase, (375) 289
Saccharomyces cerevisiae, (359) 215; (362) 229; (364) 13; (364) 91; (365) 198; (366) 43; (367) 201; (367) 241; (368) 39; (368) 73; (368) 505; (369) 212; (370) 41; (370) 149; (371) 4; (373) 66; (374) 100; (376) 120; (377) 128; (377) 271
Saccharomyces cerevisiae sec6-4 mutant, (373) 269
 Salicylic acid, (363) 6; (368) 339; (377) 175
 Salinity, (365) 18
 Salivary acini, (371) 52
 Salt-stabilized protein structure, (372) 288
 Salt stress, (372) 13
 Salt tolerance, (366) 151
Sambucus ebulus L., (360) 299
 S-antigen, (362) 185
 Saponin B, (368) 485
 Saponin, (367) 23
 Saposin-like module, (362) 328
 Sapstain, (374) 208
 Sarcoplasmic reticulum, (373) 71; (376) 167
 Satellite cell, (362) 89
 Saturated phosphatidylcholine, (358) 17
 Saturation mutagenesis, (370) 149
 Scaffoldin, (360) 121
 Scanning microcalorimetry, (357) 58; (364) 165; (366) 156
 Scanning tunnelling microscopy, (371) 25
 Scavenger receptor, (376) 95
Schizosaccharomyces pombe, (363) 145; (367) 263; (375) 183; (377) 140
 Sea hare, (377) 373
 SecA, (358) 251; (362) 29; (364) 157; (364) 305
 SecA folding, (359) 1
 SecE, (364) 157
 Second messenger system, (363) 49
 Secondary structure, (359) 184; (362) 328; (362) 333; (363) 90; (365) 35; (365) 115; (371) 115; (374) 327; (375) 174
 Secondary structure prediction, (358) 283; (371) 199
 Secretase, (377) 267
 Secretion, (360) 266; (362) 15; (364) 91; (364) 203; (368) 363; (369) 80; (369) 202; (370) 255; (374) 77; (377) 489; (377) 505
 Secretory granule, (364) 328
 Secretory pathway, (369) 84; (369) 267
 Secretory vesicle, (368) 411
 Sedimentation, (359) 20; (375) 137
 Seed development, (360) 15
 Segmentation, (365) 71
Sei-1, (368) 353
 Selectin P-, L-, E-, (363) 123
 Selectively-infective phage, (377) 227
 Selectivity, (377) 363
 Selenium, (368) 59
 Selenocysteine, (377) 313
 Selenodiglutathione, (368) 59
 Self-assembly, (361) 55
 Self-glucosylating protein, (376) 61
 Semaphorin, (370) 269
 Semen, (374) 53
 Seminal plasma, (368) 420
 Seminal plasma protein, (365) 179
 Seminal plasma sperm motility inhibitor, (368) 420
 Seminal vesicle protein, (368) 420
 Semiquinone radical, (374) 265
 Semliki Forest virus, (375) 134
 Senescence, (358) 126
 Senescent cell antigen, (362) 165
 Sensitization to L-697,661, (359) 233
Sepia officinalis, (364) 189
 Sepsis, (377) 461
 Septic shock, (363) 235
 Sequence, (358) 67; (377) 62
 Sequence alignment, (367) 56
 Sequence analysis, (358) 153; (363) 269; (366) 33; (374) 211
 Sequence conservation, (357) 149
 Sequence Fourier transform, (366) 33
 Sequence homology, (364) 36; (365) 198; (374) 246
 Sequence specificity, (362) 205; (372) 144
 Sequence-directed antibody, (358) 137
 Ser/Thr-phosphopeptide, (368) 452
 Ser-Arg motif, (372) 59
 Serine acetyltransferase, (358) 43
 Serine kinase, (370) 175
 Serine protease, (364) 268; (371) 1; (377) 62
 Serine protease inhibitor, (365) 159
 Serine proteinase, (374) 208
 Serine proteinase inhibitor gene, (364) 179
 Serotonin, (368) 367; (368) 411; (377) 73
 Serotonin biosynthesis, (368) 151
 Serpin, (359) 78; (365) 189; (368) 401; (368) 471; (373) 61; (376) 243; (377) 150
 Serum amyloid A, (374) 241
 Serum response element, (361) 140; (368) 77
 Serum response factor, (357) 45
 Serum-free, (377) 290
 Serum-free medium, (368) 92
 Seven transmembrane receptor, (363) 261
 Severin, (374) 284
 Sexual dimorphism, (376) 257
 SH2, (358) 287
 SH2 domain, (369) 47; (369) 62; (374) 407
 SH3, (358) 287; (373) 245
 SH3 domain, (369) 47; (369) 62; (373) 265
 Shark, (370) 53
 Shc, (377) 497
 SH-containing compounds, (375) 18
 Shear stress, (373) 108
 Sheep brain, (375) 117
 β -Sheet protein, (371) 199
 SH-groups cross-linking, (365) 75
 Shock, (372) 229
 Short-chain ceramide, (374) 299
 Shortening velocity, (365) 167
 Short-length bifunctional photoaffinity label, (377) 408
 SH-SY5Y cell, (358) 305
 Shuttle vector, (377) 434
 Sialic acid, (362) 161; (366) 57; (369) 260; (371) 13
 Sialidase, (372) 148
 Sialyl Lewis^x binding site, (363) 123
 Sialylation, (363) 280
 Sialyl-Lewis, (366) 57; (366) 57
 Sialyloligosaccharides, (366) 57
 Sialyltransferase, (360) 1; (363) 280; (369) 260; (373) 119
 Side-by-side binding, (375) 304
 Sidechain interactions, (377) 377
 Signal peptide, (367) 141
 Signal recognition particle, (372) 253
 Signal sequence, (360) 307
 Signal transducers and activators of transcription (STAT), (370) 63

- Signal transduction, (358) 31; (358) 84; (358) 113; (358) 153; (360) 97; (360) 137; (361) 282; (361) 295; (363) 49; (365) 1; (365) 155; (366) 143; (367) 122; (367) 223; (367) 263; (369) 84; (370) 63; (370) 118; (370) 146; (370) 236; (370) 250; (371) 236; (372) 99; (372) 113; (373) 51; (373) 225; (374) 48; (374) 149; (374) 317; (375) 239; (377) 103; (377) 243; (377) 333
- Signaling, (367) 39; (368) 55
- Signaling molecule, (376) 74
- Silencer, (369) 335
- Silicomolybdate, (357) 55
- Sinapis alba* var. Albatros, (364) 179
- Single cell RT-PCR, (376) 24
- Single K⁺ channel, (371) 307
- Single molecular observation, (361) 277
- Single-chain Fv, (377) 135
- Single-chain Fv fragment, (377) 227
- Single-strand break assay, (377) 118
- Single-stranded DNA binding protein, (357) 283
- Sinusoidal cell, (372) 140
- Site-directed disulfide reduction, (360) 261
- Site-directed mutagenesis, (357) 145; (359) 20; (361) 111; (361) 243; (362) 47; (362) 291; (365) 92; (365) 129; (365) 214; (367) 241; (368) 169; (368) 220; (373) 177; (374) 253; (374) 312; (374) 356; (374) 412; (375) 289; (376) 190
- Site-specific mutant, (377) 502
- Site-specific photo-crosslinking, (371) 145
- Skeletal, (368) 405
- Skeletal muscle, (359) 60; (359) 223; (360) 144; (362) 271; (365) 98; (374) 43; (374) 309; (375) 215; (377) 338
- Skinned fibre, (377) 131
- SKNSH-SY cell, (357) 197
- Sleep-inducing factor, (377) 82
- Slime mould, (370) 146
- Small GTP-binding protein, (363) 231; (365) 209; (377) 109; (377) 243
- Small heat-shock protein, (369) 305
- Small intestine, (368) 563
- Small-angle X-ray solution scattering, (372) 169
- Smooth muscle, (363) 246; (365) 167; (367) 23; (367) 246; (369) 295; (370) 215; (372) 6; (377) 123
- Smooth muscle cell, (363) 161; (363) 277; (366) 75; (368) 215; (368) 239; (377) 493
- Smooth muscle myosin, (363) 57
- SNAP, (369) 80
- SNAP-25, (372) 39; (377) 489
- SNARE, (369) 80; (372) 39
- SNF1, (361) 191; (377) 189
- SOD, (371) 297; (372) 140
- SOD cDNA, (362) 323
- Sodium, (359) 101
- Sodium binding, (371) 39
- Sodium borohydride, (370) 123
- Sodium channel, (361) 145
- Sodium cholate, (358) 17
- Sodium ion translocation, (375) 5
- Sodium ion-motive force, (371) 119
- Solanum tuberosum*, (377) 349
- Soleus, (365) 98
- Solid phase assay, (358) 179
- Solid-state MAS ¹³C NMR spectroscopy, (362) 34
- Soluble galactose binding lectin, (363) 165
- Solute release, (375) 113
- Solution structure, (359) 113; (360) 125; (372) 203
- Solvent effect, (359) 113
- Solventogenesis, (362) 1
- Soma, (368) 455
- Somatostatin, (362) 143; (372) 88
- Somatotroph, (364) 79
- Sorcin, (357) 230
- Sorting, (369) 18
- Sos, (369) 47
- Sox, (377) 37
- Soybean, (371) 223
- Soybean agglutinin, (369) 221
- Soybean chloroplast, (368) 135
- Soybean trypsin inhibitor binding protein, (365) 179
- Sp1, (369) 225
- Specific induction, (368) 547
- Specific promoter, (368) 509
- Specificity, (362) 19
- Specificity determinant, (361) 191
- Specificity of origin recognition, (362) 116
- Spectrin, (369) 27
- β -Spectrin, (368) 500
- Spectroscopic technique, (375) 239
- Speculation, (361) 167
- Sperm, (357) 98; (364) 147
- Sperm membrane potential, (372) 119
- Sperm nuclear basic protein, (363) 37
- Sperm whale (*Physeter catodon*) myoglobin, (357) 227
- Spermadhesin, (368) 420
- Spermatogenesis, (360) 315; (368) 509
- Spermatozoa, (360) 242; (364) 83
- Spermidine, (357) 192
- Spermidine synthase, (365) 61
- Spermidine/spermine N¹-Acetyltransferase, (377) 321
- Spherical harmonics, (372) 169
- Sphingolipid, (367) 201; (367) 283; (375) 11; (377) 271
- Sphingomyelin, (368) 477; (369) 18; (375) 249
- Sphingomyelin biosynthesis, (368) 393
- Sphingomyelinase, (358) 211
- Sphingosine, (364) 301; (367) 205
- Spin label, (367) 137
- Spin label ESR (spectroscopy), (359) 45
- Spin state, (377) 512
- Spinacea oleracea*, (377) 113
- Spinach, (363) 137; (364) 51; (367) 28
- Spinach ferredoxin, (361) 75
- Spinach leave, (369) 149
- Spinach thylakoid, (371) 195
- Spinacia*, (376) 45
- Spin-labeling, (371) 261
- Splice variant, (363) 256
- Splicing, (369) 340
- Spodoptera frugiperda* cell (Sf9 cell), (368) 321
- Sporulation, (362) 1; (370) 146
- Squalene synthase, (358) 230
- Squalus acanthias* (spiny dogfish shark), (371) 69
- Squamous cell carcinoma antigen, (373) 61
- Squamous cell carcinoma antigen (SCCA), (359) 78
- Squelching, (357) 45
- Squid, (377) 333
- SR 120819A, (362) 192
- Src protein tyrosine kinase, (369) 62
- src-family tyrosine kinase, (358) 34
- Src-PTK, (374) 407
- SR γ , (377) 37
- ST2, (372) 189
- Stability, (359) 9; (366) 72; (369) 217; (375) 63
- Stabilization of enzyme, (364) 98
- Stable expression, (371) 293
- Stable isotope, (363) 61
- Stacking interaction, (370) 193
- Staphylococcus aureus*, (357) 260; (365) 193
- Staphylococcus carnosus*, (362) 29
- Staphylococcus intermedius*, (376) 135
- Stat, (360) 137
- Stat 3, (369) 169
- Stathmin, (364) 309
- Staurosporine, (365) 137
- Staurosporine analogue, (362) 139
- STE18, (367) 122
- STE4, (367) 122
- Stefin, (360) 101
- Steroid binding, (376) 257
- Steroid-binding protein, (361) 255
- Steroid hormone, (365) 7; (374) 184
- Steroid hormone action, (376) 151
- Steroid hormone receptor, (377) 103
- Sterol 14 α -demethylase (P4501A1), (368) 326
- Sterol Δ^2 -desaturase, (377) 217
- ST-ESR, (372) 103
- Stilbene synthase, (361) 299
- Stimulation of bacteriochlorophyll biosynthesis, (372) 264
- Stimulatory GTP-binding protein, (357) 13
- Stoma, (362) 180
- Stomata, (363) 157

- Stopped-flow, (374) 105
 Stopped-flow fluorescence kinetics, (361) 250
 Stopped-flow method, (362) 189
 Strand breakage, (374) 233; (375) 179
 Streptavidin, (362) 306
Streptomyces verticillus, (362) 80
 Stress, (364) 223; (366) 151
 Stress protein, (370) 159
 Stress response, (372) 210; (377) 457
 Stress response element CCCCT (STRE), (360) 286
 Stromelysin-1, (358) 189
 Structural alignment, (371) 231
 Structural amino-acid replacement, (374) 363
 Structural motif, (374) 246
 Structural similarity, (357) 103; (364) 319
 Structure, (358) 193; (358) 278; (363) 199; (367) 280
 Structure comparison, (373) 221
 Structure determination, (364) 243
 Structure prediction, (363) 269; (367) 56; (373) 13
 Structure-Function, (367) 122
 Structure-function analysis, (360) 43; (369) 187
 Structure-function relationship, (365) 149; (373) 280
 Subcellular distribution, (359) 81
 Sub-cellular fractionation, (369) 122
 Subcellular fractions, (368) 125
 Sub-library, (362) 306
 Submucosa, (369) 202
 Substantia nigra, (358) 305
 Substrate aglycon, (372) 148
 Substrate channel, (367) 241
 Substrate interaction, (364) 152
 Substrate specificity, (363) 22; (370) 93
 Substrate turnover, (370) 23
 Substrate-binding site, (367) 306; (375) 95
 Substrate-mediated inhibitor displacement, (361) 250
 Subtelomeric repeat, (364) 33
 Subtilisin, (374) 208; (374) 363
 Subtraction, (363) 239
 Subtractive cloning, (376) 257
 Subunit, (373) 88
 Subunit 12, (363) 97
 Subunit association, (357) 301
 Subunit p45, (363) 151
 α , Subunit, (364) 129; (368) 405; (371) 43; (371) 43; (373) 103
 α_1A Subunit, (366) 21
 α_{1B} Subunit, (371) 43
 α_2 Subunit, (366) 21; (374) 412
 β Subunit, (370) 32; (377) 383
 β , Subunit, (361) 13; (371) 43; (372) 20; (373) 103
 β_1 Subunit, (377) 485
 $\beta\gamma$ Subunit, (368) 183
 c Subunit mutant, (368) 235
 γ and ϵ Subunits, (368) 235
 Subunit-integrating domain, (360) 121
 Subunit-specificity, (363) 17
 Succinate dehydrogenase, (367) 1; (367) 287
 Succinate quinone reductase, (359) 23
 Succinate-ubiquinone reductase, (367) 1
 Sucrose, (362) 180
 Sucrose transporter, (377) 167
 SUG1, (363) 151
 SU11, (365) 47
 Sulfate assimilation, (358) 43
 Sulfation, (368) 536
 Sulfhydryl, (374) 25
 Sulfhydryl group, (360) 251
 Sulfhydryl reagent, (362) 47
 Sulfite reductase, (374) 82
 Sulfite-mediated inactivation, (366) 165
Sulfolobus solfataricus, (360) 187; (372) 135
 Sulfur amino acid metabolism, (367) 15
 Sulfur deprivation, (363) 1
 Sulphonylurea receptor, (377) 338
 Sulphonylureas, (371) 137
 Supercoiled DNA, (362) 59
 Superfamily, (362) 281
 Superoxide, (363) 235; (364) 314; (366) 75; (369) 131; (371) 86; (371) 297; (372) 140; (372) 229; (376) 207; (377) 309
 Superoxide dismutase, (357) 79; (358) 62; (360) 197; (363) 289; (368) 449
 Superreduction, (361) 75
 Suppressor tRNA, (361) 25
 Suramin, (375) 129
 Surface charge density, (373) 81
 Surface hydrophobicity, (369) 321
 Surface pH, (370) 189
 Surface plasmon resonance, (369) 283
 Surface potential, (369) 140
 Surfactant polypeptide-C, (362) 261
 Suspension culture, (360) 57
 SV40, (374) 384; (375) 263
 SV40 shuttle vector, (374) 287
 Swelling, (375) 56
 SWI/SNF complex, (369) 118
 Swiss 3T3 cell, (371) 105
 Syk, (374) 407
 Synapse, (368) 455; (369) 3; (374) 393; (377) 489
 Synaptic protein, (359) 159
 Synaptic vesicle, (364) 328; (367) 233; (377) 201
 Synaptobrevin, (361) 101; (365) 209; (377) 489
 Synaptophysin, (361) 101
 Synaptotagmin, (361) 101; (364) 328
 Synaptotagmin V, (361) 196
 Syncytiotrophoblast, (375) 227
Synechocystis, (361) 111; (362) 171; (364) 239
Synechocystis 6803, (367) 45
 Synergohymenotropic toxin, (376) 135
 Synovial fluid, (361) 167
 Syntaxin, (361) 101; (377) 489
 Synthesis (de novo), (373) 255
 Synthetase, (358) 97
 Synthetic peptide, (361) 85; (363) 195; (364) 45; (365) 227; (367) 85; (369) 161; (372) 96
 Synthetic peptide library, (362) 306
 Syntrophin, (367) 311; (375) 91
 Syrian hamster, (376) 257

 T cell, (364) 134; (374) 341
 T cell receptor, (358) 79
 T lymphocyte, (375) 69
 T_1 relaxation measurement, (368) 279
 T1, (372) 189
 T7 RNA polymerase, (369) 165; (371) 9
 Tacrine, (377) 201
 Talin, (368) 516
 Tamoxifen, (360) 165
 Tandem mass spectrometry, (374) 208
 Target duplication, (376) 146
 Targeting, (361) 8
 Targeting signal, (368) 122
 Targeting subunit, (375) 294
 TATA box, (372) 157
 TATA-box binding protein, (357) 45
 Tau, (360) 5; (365) 42; (368) 10; (372) 59; (375) 243; (376) 238
 Tau phosphorylation, (372) 65
 Tau protein, (357) 197; (358) 4; (358) 267
 Tax, (375) 31
 Tax1, (358) 34
 T-cell, (363) 101
 T-cell receptor, (363) 101
 TCEP, (371) 341
 TCFs, (368) 77
 TDP-glucose, (359) 110
 Teleost, (360) 197; (362) 89
 Telomere, (364) 33
 Temperature, (372) 103
 Template interaction, (374) 327
 Temporary inhibition, (361) 185
 Tenascin-C, (369) 335
 Tentoxin, (368) 253
 Terminal deoxynucleotidyl transferase, (357) 23
 Terminal differentiation, (358) 126
 Terminal transferase, (374) 367
 Ternary complex, (357) 19; (358) 71; (367) 211
 Tertiary structure, (362) 43; (368) 315; (375) 174
 Testis, (357) 27; (368) 509

- Testosterone, (360) 291
 Tet K, (365) 193
 Tetracycline, (365) 193; (374) 72
 Tetracycline/H⁺, (365) 193
 Tetracycline/H⁺ antiporter, (362) 47; (374) 72
 Tetraethylammonium, (361) 145
 Tetrahydrobiopterin, (363) 69
 Δ⁹-Tetrahydrocannabinol, (369) 177; (375) 143
 Tetrahydromethanopterin, (368) 203
Tetrahymena pyriformis, (362) 24
 Tetranectin, (373) 1
 Tetrodotoxin, (361) 145; (365) 79; (369) 290
 TEXAN, (377) 201
 TGF-β, (358) 109; (362) 295; (364) 193; (368) 556; (373) 1
 TGN38 phosphorylation, (368) 122
 Thapsigargin, (360) 173; (368) 165; (376) 167; (377) 31
 Thermal denaturation, (370) 273
 Thermal inactivation of enzyme, (364) 98
 Thermal stability, (364) 325; (373) 280; (377) 135
 Thermal transition, (369) 321
 Thermodenaturation, (377) 92
 Thermodynamics, (357) 227; (361) 273; (370) 153
 Thermolysin, (362) 189
 Thermophilic, (360) 187
 Thermophilic *Bacillus*, (376) 190
Thermoplasma acidophilum, (359) 173; (376) 67
 Thermosome, (376) 67
 Thermostability, (360) 197
 Thermostable strain, (374) 363
 Thermotolerance, (360) 286; (377) 457
Thermus thermophilus, (362) 121; (368) 132; (369) 158; (369) 229; (374) 110
 Thiocyanate uptake, (367) 167
 Thioester, (368) 87
 Thiol, (366) 75; (376) 1
 Thiol ester, (367) 137
 Thioltransferase, (374) 25
 Thionin, (369) 239
 γ-Thionin, (368) 257
 Thioredoxin, (357) 305; (369) 149; (371) 167
 Thioredoxin reductase, (357) 305; (373) 5
 Thiouracils binding, (374) 192
 Thiyl radical, (360) 47
 THP.1 cell, (374) 303
 THP(A) uptake by mammalian cells, (367) 33
 THP(A)/TAR-RNA binding, (367) 33
 Three-dimensional reconstruction, (369) 43
 Three-dimensional structure, (374) 379
 Three-helix bundle, (374) 257
 Thrombin, (365) 189; (365) 219; (369) 311; (373) 146
 Thrombin receptor, (363) 231
 Thrombin thrombomodulin complex, (367) 153
 Thrombopoietin, (370) 63; (374) 48; (377) 497
 Thrombospondin, (363) 214; (364) 109; (368) 307
 Thromboxane A₂, (364) 87; (372) 108
 Thylakoid, (364) 305; (368) 253; (368) 263
 Thylakoid kinase, (371) 176
 Thylakoid membrane, (364) 239
 Thymidine kinase, (368) 289; (373) 41
 Thymidylate synthase, (373) 41
 Thymocyte, (358) 79; (375) 283
 Thymocyte apoptosis, (357) 242
 Thyroid hormone receptor α, (358) 137
 Thyroxine, (360) 177
 Time-resolved solid-state NMR, (377) 208
 Timothy grass pollen, (363) 6
 TIMP-2, (364) 28
 Tissue distribution, (363) 256; (372) 151; (377) 15
 Tissue factor, (374) 141
 Tissue Inhibitor, (364) 28
 Tissue inhibitor of metalloproteinase, (357) 33; (360) 52
 Tissue kinetics, (373) 97
 Tissue-specific enzyme accumulation, (377) 349
 Tissue-specific expression, (358) 89
 Tissue-specific expression, *Homo sapiens*, (377) 249
 tms1-p53 interaction, (377) 155
 TNF, (357) 1; (364) 5
 TNF receptor, (371) 321
 TNF-α, (358) 211; (368) 556; (370) 78; (377) 237
 TNFα receptor, (376) 24
 Tobacco mosaic virus, (359) 247
 α-Tocopherol, (357) 83; (358) 175; (360) 271
 Tolbutamide, (371) 137
 Toll receptor, (365) 83
 Tomato mosaic virus, (372) 165
 Tonoplast, (361) 65
 Topa quinone, (371) 276
 Topogenic signal, (357) 115
 Topology, (369) 140
 Torpedo, (375) 91
Torpedo 87K protein, (367) 311
 Toxic protein, (371) 4
 Toxicity, (361) 291
 Toxin, (360) 62; (369) 239
 TRAF, (358) 113
Trans-Golgi network, (368) 122; (369) 267
Trans-activation, (377) 413
Trans-Activation response element, (367) 267
 Transcription, (358) 109; (366) 26; (368) 311; (369) 113; (369) 118; (374) 327; (376) 11; (377) 51; (377) 98
 Transcription factor, (357) 62; (358) 1; (358) 109; (358) 225; (360) 29; (360) 137; (360) 315; (363) 105; (368) 77; (368) 509; (369) 225; (369) 277; (370) 170; (371) 181; (372) 215; (374) 48; (376) 103
 Transcription, in vitro, (360) 115; (374) 62
 Transcription regulation, (357) 45; (364) 13; (376) 120
 Transcriptional activation, (360) 183
 Transcriptional activator, (358) 89
 Transcriptional control, (362) 210
 Transcriptional control region, (358) 13
 Transcriptional regulation, (360) 39; (363) 1; (367) 15; (368) 547
 Transcriptional repression, (369) 153
 Transfectant, (372) 25
 Transfection, (358) 84; (371) 245
 Transfer RNA, (362) 24
 Transferrin enhancer, (369) 277
 Transferrin receptor, (365) 137
 Transforming growth factor-β, (376) 31; (377) 493
 Transforming growth factor-β receptor type III, (377) 368
 Transforming growth factor-β1, (375) 159
 Transgenic *Drosophila*, (377) 185
 Transgenic mouse, (368) 509; (371) 329; (375) 125
 Transgenic plant, (372) 165
 Transgenic tobacco, (377) 54
 Transglutaminase, (360) 160; (370) 27
 Transient activation, (370) 113
 Transient electric birefringence, (358) 185
 Transient expression, (369) 331
 Transient receptor potential, (373) 193
 Transient surface potential changes, (373) 81
 Transit peptide, (358) 39; (361) 35
 Transit peptide-lipid interaction, (361) 35
 Transition from G0 to G1 of the cell cycle, (372) 273
 Transition state, (372) 148
 Transketolase, (375) 220
 Translation, (357) 19; (359) 206; (362) 1; (365) 47; (365) 115
 Translation, in vitro, (368) 505; (376) 195
 Translation initiation factor, (360) 191
 Translational control, (366) 92
 Translational efficiency, (361) 25
 Translational elongation factor, (377) 313
 Translational enhancement, (360) 281
 Translational regulation, (365) 61
 Translocation, (369) 140
 Transmembrane, (370) 269
 Transmembrane Ca²⁺ gradient, (357) 13
 Transmembrane electrical potential, (371) 258
 Transmembrane helix, (374) 21; (377) 377
 Transmembrane topology, (368) 230
 Transmission electron microscopy, (369) 13
 Transmitter release, (363) 221
 Transphosphatidylation, (364) 250
 Transport, (359) 179; (365) 18; (376) 211
 Transport protein, (377) 232
 Transporter, (357) 86; (363) 264; (373) 229
 Transposase, (368) 541
 Transthyretin, (359) 203; (360) 177; (365) 23

- Transverse tubule, (374) 43
trans-Zeatin, (366) 26
 Trefoil peptide, (357) 50
 Trehalase activation, (367) 263
 Trehalase gene, (360) 286
 Trehalose, (377) 457
 Trehalose hydrolysis, (360) 286
N,N',N''-Triacetyl chitotriose, (361) 157; (370) 245
 Tricarboxylate carrier, (357) 297
Trichoderma reesei, (372) 96; (376) 103
 Trichokirin, (373) 115
 Trichosanthin, (373) 115
 Tricyclic cannabinoids, (375) 143
 Trifluoroethanol, (362) 266
 Trigger factor, (374) 211
 Triosephosphate isomerase, (367) 315
 Triple helix, (357) 312; (368) 551
 Triple helix DNA, (374) 287
 Triple-helical peptides, (368) 551
 Triplex formation, (372) 222
Triticum aestivum, (373) 56
 Tritin, (373) 115
 Trk, (360) 106
 tRNA, (358) 293; (361) 25; (373) 115; (374) 62; (377) 313
 tRNA AC-arm mutants, (374) 62
 tRNA aminoacylation, (374) 110
 tRNA^{Lys} derivative, (361) 287
 tRNA^{Lys} induced activation, (373) 255
 tRNA modifying enzyme, (361) 259
 Tropism, (358) 48
 Tropomyosin, (363) 273
 Troponin C, (377) 131
 Troponin I, (377) 131
trpl, (358) 297
Trypanosoma brucei, (360) 310
Trypanosoma cruzi, (370) 101
 Trypsin digestion, (357) 297
 Trypsin fragments, (368) 49
 Trypsin inhibitor, (360) 15
 Trypsin-like protease, (357) 242
 Tryptase, (363) 81; (364) 268
 Tryptase TL₂, (358) 48
 Tryptophan, (370) 193
 Tryptophan hydroxylase, (368) 151
 Tryptophan oxidation, (364) 279
 Tryptophane, (374) 387
 t-Tubule, (364) 129
 Tubulin, (360) 5; (360) 132; (364) 147; (371) 29; (372) 59; (374) 165; (377) 59
 Tubulin:tyrosine ligase, (374) 165
 Tumor biology, (358) 1
 Tumor cell, (364) 28; (369) 161; (372) 44
 Tumor necrosis factor, (359) 147; (367) 39; (372) 44; (376) 15
 Tumorigenesis, (367) 103
 Tumorigenicity, (371) 245
 Tumour suppressor p53, (377) 155
 Turbidimetry, (372) 161
 β -Turn conformation, (374) 262
 β -Turn, (372) 203
 Two hybrid system, (377) 243
 Two-color FISH, (377) 429
 Two-component system, (358) 31; (372) 238
 Two-dimensional crystal, (373) 262
 Two-dimensional electrophoresis, (368) 5
 Two-dimensional thin-layer chromatography, (368) 477
 Two-hybrid system, (367) 39; (373) 51; (377) 295
 TX/ICE₉₀II/Ich-2, (375) 169
 TYLCV, (362) 116
 Type I copper protein, (365) 35
 Type I IFN-R, (374) 317
 Type II citrullinemia, (372) 69
 Type II dehydroquinase, (360) 93
 Type II diabetes mellitus, (358) 219
 Type IV collagenase, (360) 52
 κ -Type, (364) 23
 μ -type, (357) 93; (364) 23
 Tyrocidine synthetase, (357) 212
 Tyrosination, (374) 165
 Tyrosine, (377) 44
 Tyrosine kinase, (357) 41; (364) 120; (369) 47; (370) 131
 Tyrosine kinase inhibitor, (370) 127
 Tyrosine kinase receptor, (374) 125
 Tyrosine kinase specificity, (367) 149
 Tyrosine phosphatase inhibitor, (372) 54
 Tyrosine phosphorylation, (358) 34; (363) 195; (364) 83; (368) 343; (370) 63; (372) 238; (375) 87
 Tyrosine protein kinase, (375) 50
 Tyr-phosphopeptide, (368) 452
 U937 cell, (358) 105; (367) 251
 UAS element, (370) 149
 Ubiquinol cytochrome *c* reductase, (359) 239
 Ubiquinol-cytochrome *c* oxidoreductase, (368) 105
 Ubiquinone, (370) 88
 Ubiquitin, (368) 125; (370) 109; (373) 291
 Ubiquitin-conjugation, (377) 193
 Ubiquitin-specific isopeptidase, (359) 73
 Ubisemiquinone, (370) 83
 UCN-01, (359) 259
 UL26 open reading frame, (357) 168
 Ultracentrifugation, (367) 315; (371) 123
 Ultraviolet B, (371) 188
 UMP/CMP-kinase, (363) 22
 Unc, (371) 321
 Uncoupler, (357) 55; (365) 7; (371) 258
 Uncoupling, (375) 206
 Uncoupling protein, (361) 303; (364) 143; (364) 193
 Underevaluation of Complex I activity, (366) 119
 Unfolded protein, (359) 93
 Unfolding, (371) 94
 Unilateral nephrectomy, (362) 220
 Unspecific binding to iron-containing proteins, (377) 175
 3'-Untranslated region, (359) 206; (374) 327
 5' Untranslated region, (365) 115
 Uracil derivative, (374) 192
 Uracil-DNA glycosylase, (362) 205
 Urea, (359) 215; (372) 103
 Urea denaturation, (366) 6; (372) 288
 Uridine diphosphate *N*-acetylglucosamine enolpyruvyl transferase, (377) 208
 Uridine phosphorylase, (367) 183
 Uroguanylin, (374) 34
 Urokinase, (359) 147
 Urokinase receptor, (358) 73; (359) 147; (369) 207
 Urokinase-type plasminogen activator, (363) 170; (376) 177
 Urokinase-type plasminogen activator receptor, (376) 177
Uromastix hardwickii, (373) 212
 Uroporphyrinogen III synthesis, (372) 264
Urtica dioica, (361) 157
 Usher protein, (371) 65
 Uteroglobin, (374) 403
 3'-UTR, (362) 323
 Utrophin, (357) 125; (369) 27
 UV fourth derivative spectrophotometry, (358) 27
 UV-melting, (370) 153
 V3 loop, (367) 251
 Vaccinia virus, (362) 143; (367) 89; (377) 1
 Vacuolar H⁺-ATPase, (359) 53; (359) 69; (367) 233
 Vacuolar targeting, (363) 211
 Vacuole, (364) 13; (365) 1
 Vanadium, (368) 31
 Vanadium enzyme, (359) 244
 Vanadium (IV), (376) 58
 Vanadyl, (376) 58
 Variable region, (365) 219
 Vascular biology, (377) 103
 Vascular endothelial growth factor, (358) 311; (372) 83
 Vascular permeability, (374) 323
 Vascular smooth muscle, (373) 30
 Vascular smooth muscle cell, (358) 311; (368) 81; (368) 343; (370) 127; (374) 295
 Vasculitis, (374) 29
 Vasoactive peptide, (369) 311
 Vasoactivity, (373) 97
 Vasopressin, (362) 19; (377) 393

- Vasopressin receptor, (370) 227
 V-ATPase, (361) 153
 Vav, (374) 149; (377) 497
 VCAM-I, (372) 194; (377) 21
 VDAC, (368) 5
 Verapamil, (377) 201
 Veratridine, (365) 79
 Vertebrate, (360) 223
 Vesicle, (369) 80; (377) 489
 Vesicle budding, (369) 89; (369) 93
 Vesicle coat, (369) 89
 Vesicle fusion, (372) 39
 Vesicular trafficking, (369) 84; (377) 465
 VGF, (360) 106
 VH, (377) 92
 VHR, (372) 54
Vibrio alginolyticus, (363) 75
Vicia faba, (362) 180
 Vigilin, (358) 193
 Vinblastine, (377) 59
 Vincristine transport, (374) 179
 Vinculin, (359) 220; (368) 516
 VIP, (362) 75
 VIP21-caveolin, (375) 11; (376) 108
 Viral infection, (358) 225
 Viroid, (358) 182
 Virulence factor, (376) 135
 Virus-like particle, (377) 67
 Virus particle, (359) 247
 Virus resistance, (372) 165
 Vision, (362) 185; (377) 333
 Vitamin C, (364) 259
 Vitamin E, (364) 259; (365) 164; (375) 45
 Vitronectin, (368) 155; (369) 249
 Voltage, (358) 301
 Voltage dependence, (377) 263
 Voltage-gated Ca^{2+} channel, (369) 315
 Voltage-gated sodium channel, (377) 485
 Voltage-sensitive Ca^{2+} channel, (359) 137
 Voltage-sensor, (363) 157
 Von Willebrand factor, (358) 283; (375) 259

 Water, (367) 53
 Water channel, (365) 209
 Water deficit, (371) 223
 Water dynamics, (377) 377
 Water oxidation, (377) 325
 Water solubility, (366) 119
 Water transport, (373) 269
 Watermelon malate dehydrogenase, (357) 115
 Wave packet, (357) 239
 WD repeat, (364) 283
 Western blot analysis, (370) 159
 Western blotting, (374) 195
 White adipose tissue, (368) 488
 White mustard, (364) 179
 White sucker, (370) 227
 Whole-cell recording, (357) 227
 Wild type and mutant myoglobin, (357) 227
 Wilms' tumor, (360) 26
 WIN55212-2, (369) 177
 Wisk1 kinase, (376) 199
 Withdrawal, (361) 70
 Wood degradation, (369) 233
 Wortmannin, (358) 243; (361) 79; (367) 272; (371) 185; (372) 161; (376) 141; (377) 393

 Wound repair, (373) 207
 Wound-inducible gene, (364) 179
WTF gene, (360) 26
 WW-domain, (358) 153

 Xanthine oxidase, (368) 513
Xanthomonas, (368) 113
 Xanthophyll cycle, (371) 61; (376) 45
Xenopus, (358) 301
Xenopus intermediate pituitary, (371) 154
Xenopus laevis, (359) 206; (360) 191; (362) 247; (368) 211; (368) 389
Xenopus laevis oocyte, (368) 169; (377) 426
Xenopus oocyte, (357) 269; (361) 13; (370) 19; (374) 312; (375) 201; (375) 249; (377) 15; (377) 159; (377) 263
 X-Ray analysis, (368) 289; (373) 39; (377) 44
 X-ray crystal structure, (375) 103
 X-ray crystal structure (of the ferric loggerhead sea turtle myoglobin:formate complex), (357) 227
 X-Ray crystallography, (357) 62; (358) 57; (361) 97; (367) 211; (367) 214; (373) 10; (374) 379
 X-ray diffraction, (357) 247; (359) 244; (364) 243; (368) 132
 X-ray scattering, (374) 141
 X-ray solution scattering, (363) 145
 X-ray structure, (367) 183; (369) 113; (377) 150

 Y chromosome, (360) 315
 Y_1 receptor antagonist, (362) 192
 3Y1 cell, (375) 155; (377) 393
 YAC, (377) 429
 yap65, (358) 153
 Yeast, (364) 13; (366) 137; (367) 122; (367) 219; (370) 264; (373) 111; (373) 170; (376) 120; (376) 229; (377) 197; (377) 271; (377) 434
 Yeast complementation, (358) 305
 Yeast genome, (377) 232
 Yeast homeologous recombination, (363) 299
 Yeast mitochondrion, (364) 161
 Yeast protein, (370) 23
 Yeast (*Saccharomyces cerevisiae*), (377) 457
 Yeast two-hybrid, (373) 155
 Yeast two-hybrid system, (357) 221
 Yeast vector, (377) 140
 Yellow component, (365) 23
 Yellow fever mosquito, (368) 461
Yersinia, (371) 65
Yersinia enterocolitica, (362) 319
YKCl, (373) 170

 Z-conformation, (368) 27
 Z-DNA, (358) 13
Zea mays, (367) 287
 Zeatin-binding protein, (366) 26
 Zeta-crystallin, (365) 133
 Zinc, (361) 89
 Zinc binding, (371) 47; (376) 53
 Zinc finger, (377) 243
 Zinc-finger protein, (360) 315; (371) 191; (372) 273
 Zinc finger protein domain, (369) 153
 Zona pellucida, (360) 242
 Zona pellucida binding protein, (365) 179
 Zonal distribution, (359) 81
 Zucker rat, (377) 109
 Z-VAD.FMK, (375) 283
 Z-Val-Ala-Asp fluoromethylketone, (374) 303